

# SHORAD WARFIGHTING SEMINAR

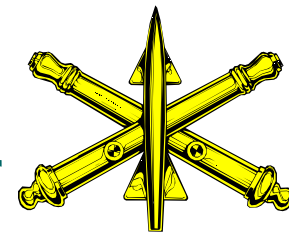




# Purpose



**To enhance warfighting skills of Air Defense Artillery units in the areas of planning, coordination, integration, synchronization, and execution of combat operations in support of the Brigade Combat Team at the National Training Center.**

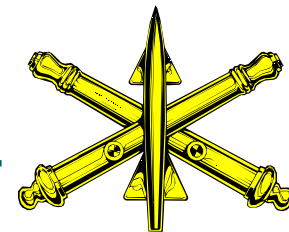




# Agenda



- **Mission (NTC & ADA)**
- **AARs**
- **NTC Primer**
- **O/C Organization & Tasks**
- **MILES**
- **Reconstitution**
- **Safety**
- **Threat (OPFOR)**
- **Conclusion**





# National Training Center Mission

**TO PROVIDE TOUGH, REALISTIC, JOINT AND COMBINED ARMS TRAINING FOCUSED ON DEVELOPING SOLDIERS, LEADERS AND UNITS OF AMERICA'S ARMY FOR SUCCESS ON THE 21<sup>ST</sup> CENTURY BATTLEFIELD.**

**ADDITIONALLY, THE NTC PROVIDES A VITAL SOURCE OF EXPERIENCE BASED INFORMATION AND DATA ESSENTIAL TO DOCTRINE, EQUIPMENT, TRAINING, AND FORCE DEVELOPMENT IN ORDER TO IMPROVE THE FORCE.**



# Air Defense Mission

**COACH, TEACH, AND MENTOR BCT  
LEADERS, STAFFS, AND THE ADA  
BATTERY ON THE APPLICATION AND  
EXECUTION OF THE AIR DEFENSE  
BATTLEFIELD OPERATING SYSTEM IN  
SUPPORT OF THE COMBINED ARMS  
FIGHT. IMPROVE THE ADA WARFIGHTING  
SKILLS OF THE BRIGADE COMBAT TEAM.**





# Keys to a Good Rotation



- ***SOPs work*** → On the fly often leads to forgetfulness →
- ***Bring an open mind*** → Focus on learning
- ***No “cookie cutter” solution*** Don't think everything you have done up to now is the greatest → thing - some things don't work
- ***Agility*** Best dividends are rewarded to agile thinkers → who think fast on their feet and clearly communicate intentions
- ***Discipline*** Doing what is right when no one is looking



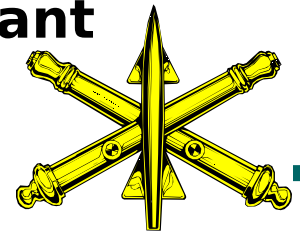


# Leaders



## Must Know and come prepared:

- **Aerial IPB** → How/When to Integrate with S2 IPB temp
- **MDMP** → How/What products must you have to par  
What products are done when and the generati  
Warning Orders/FRAGOs
- **Rehearsals** → Not a question of do we execute them...Ho  
Terrain kit boxed up now, format establish  
Who attends? 1SG? Why not?
- **DST, DSM, Execution checklist** → For unit or O/Cs
- **Early Warning** → Plan in place, triggers for  
movement, SOR Management...The most important  
battery essential task!! Why?





# Success

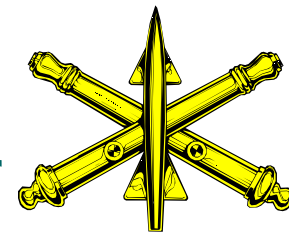


**SUCCESS OF THE ADA BATTERY AT THE NTC IS NOT DETERMINED BY HOW MANY AIRCRAFT YOU SHOOT DOWN - RATHER IT IS HOW WELL WE HAVE INTEGRATED OUR ADA ASSETS AS A COMBAT MULTIPLIER TO THE BDE TO ACCOMPLISH THE MISSION**

- **Patton addressing his troops training in the Desert Training Center in 1942:**
- **“If you can work successfully here in this country, be no difficulty at all to kill the assorted sons of bitches will meet in any other country.”**

**Patton**

**National Training Center**







# RSOI Data Card



## 1. SHOOT

- a. Wpns Boresighted, Screened, Zeroed
- b. MILES Instrumented, FMC

## 2. MOVE

- a. Vehs PMCSd, Load Plan, FMC
- b. Maps posted, NVGs

## 3. COMMUNICATE

- a. COMSEC Loaded, SR/LR Radio Check
- b. IFF, DEW, Challenge/Password
- c. PMCS, FMC

## 4. SUSTAIN

- a. Classes of Supply, CLS Bags, 5988Es

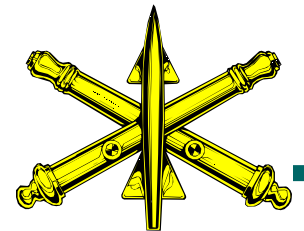




# Pre-Battle Card



- 1. WARNO Issued and to Standard**
- 2. OPORD Issued and to Standard**
- 3. Rehearsal Conducted and to Standard**
- 4. Orders**
- 5. Graphics**
- 6. R & S**
- 7. Security**
- 8. Class III/V**
- 9. Boresight**
- 10. PCC / PCI**
- 11. Risk Management**
- 12. IFF Status**
- 13. HTU Status**

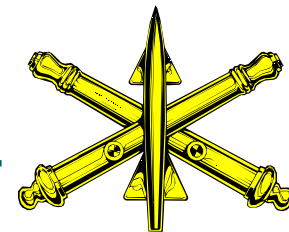




# After Action Reviews

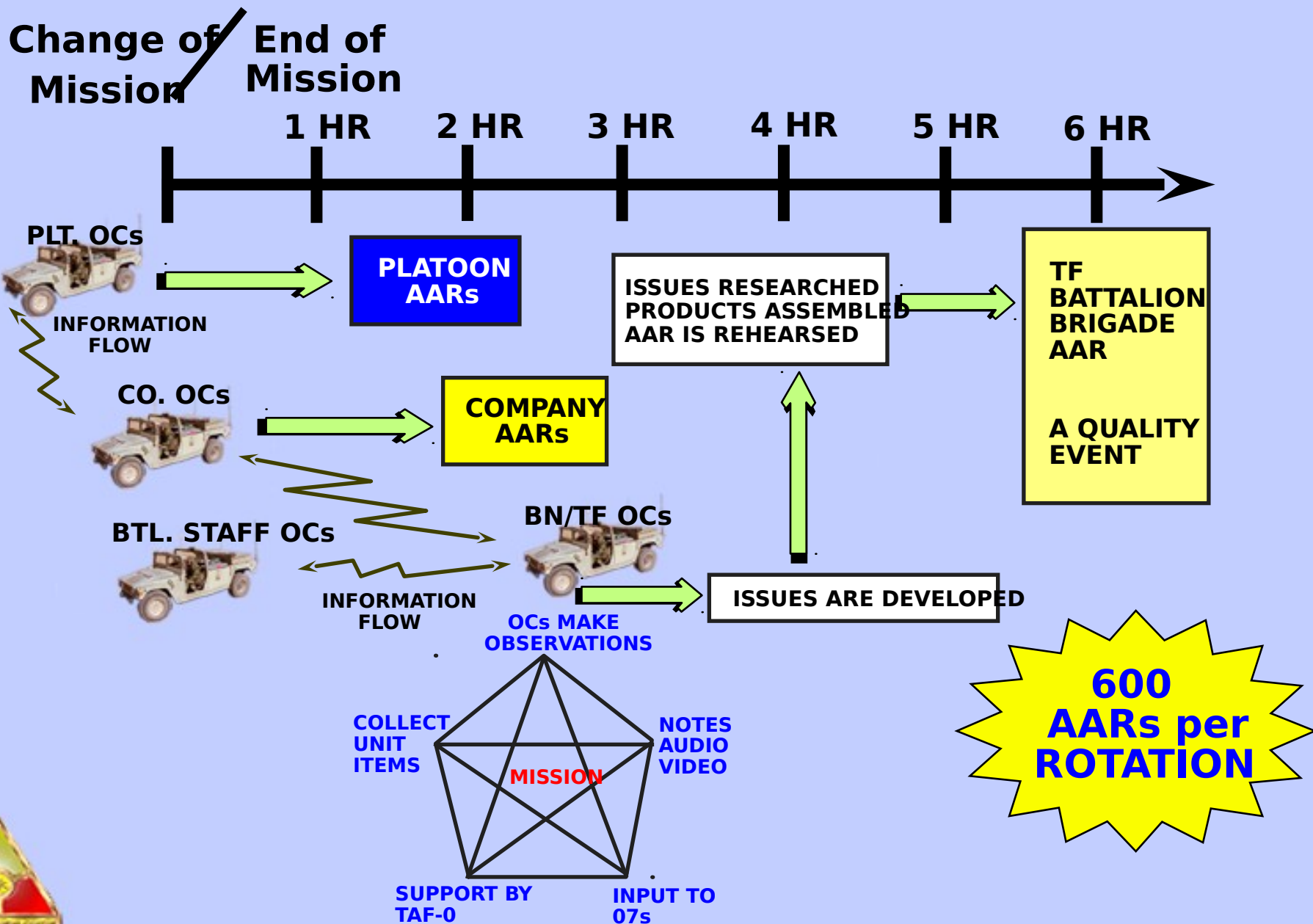


- **Most important aspect of the National Training Center**
- **Take precedence over all other activities**
- **What happened**
- **Why it happened**
- **How to improve / sustain performance**
- **How can we apply today's lessons learned to the next fight?**

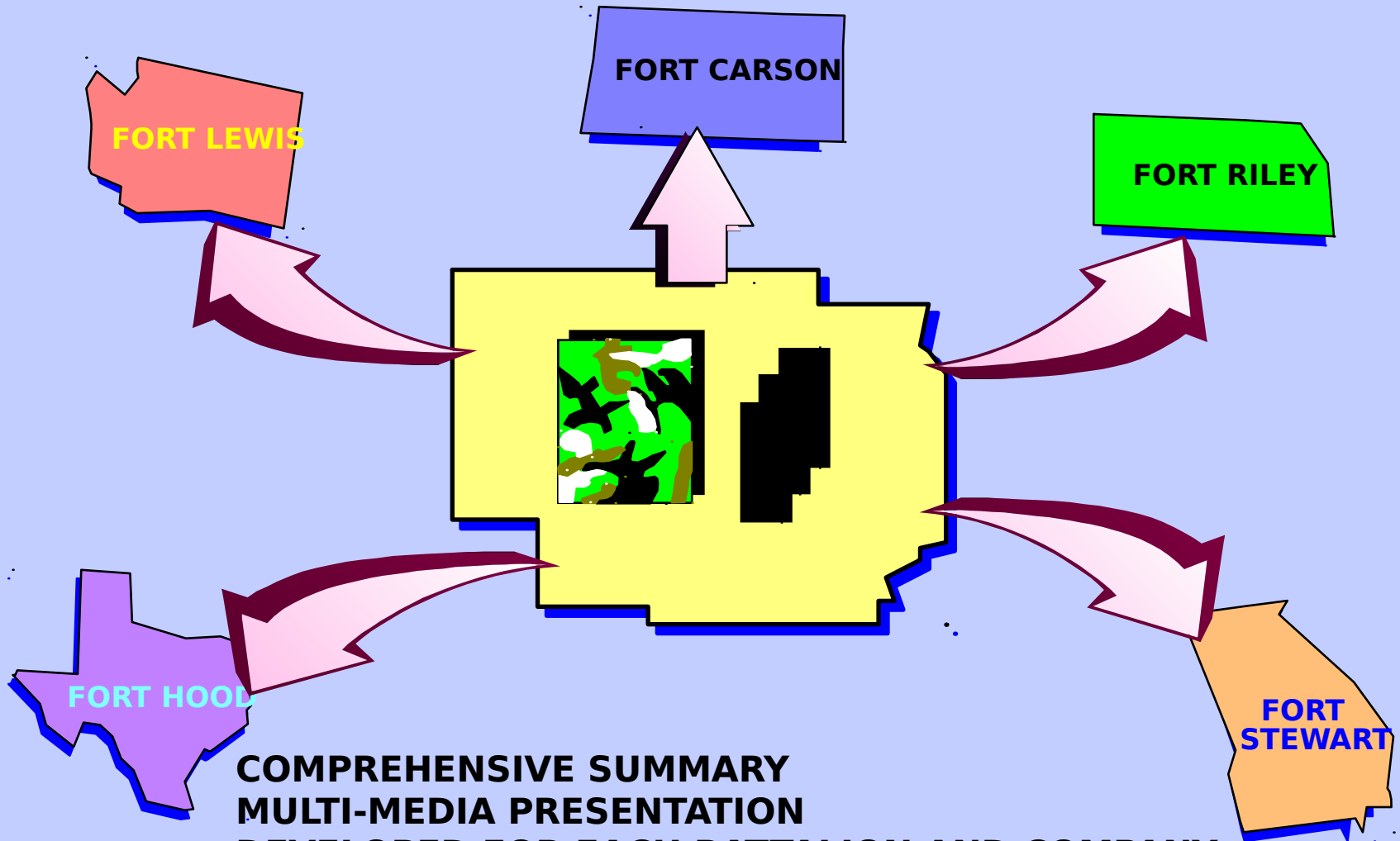




# AAR TIME LINE



# TAKE HOME PACKAGE



**COMPREHENSIVE SUMMARY  
MULTI-MEDIA PRESENTATION  
DEVELOPED FOR EACH BATTALION AND COMPANY  
PROVIDES HOME STATION TRAINING DEVELOPMENT BASE**

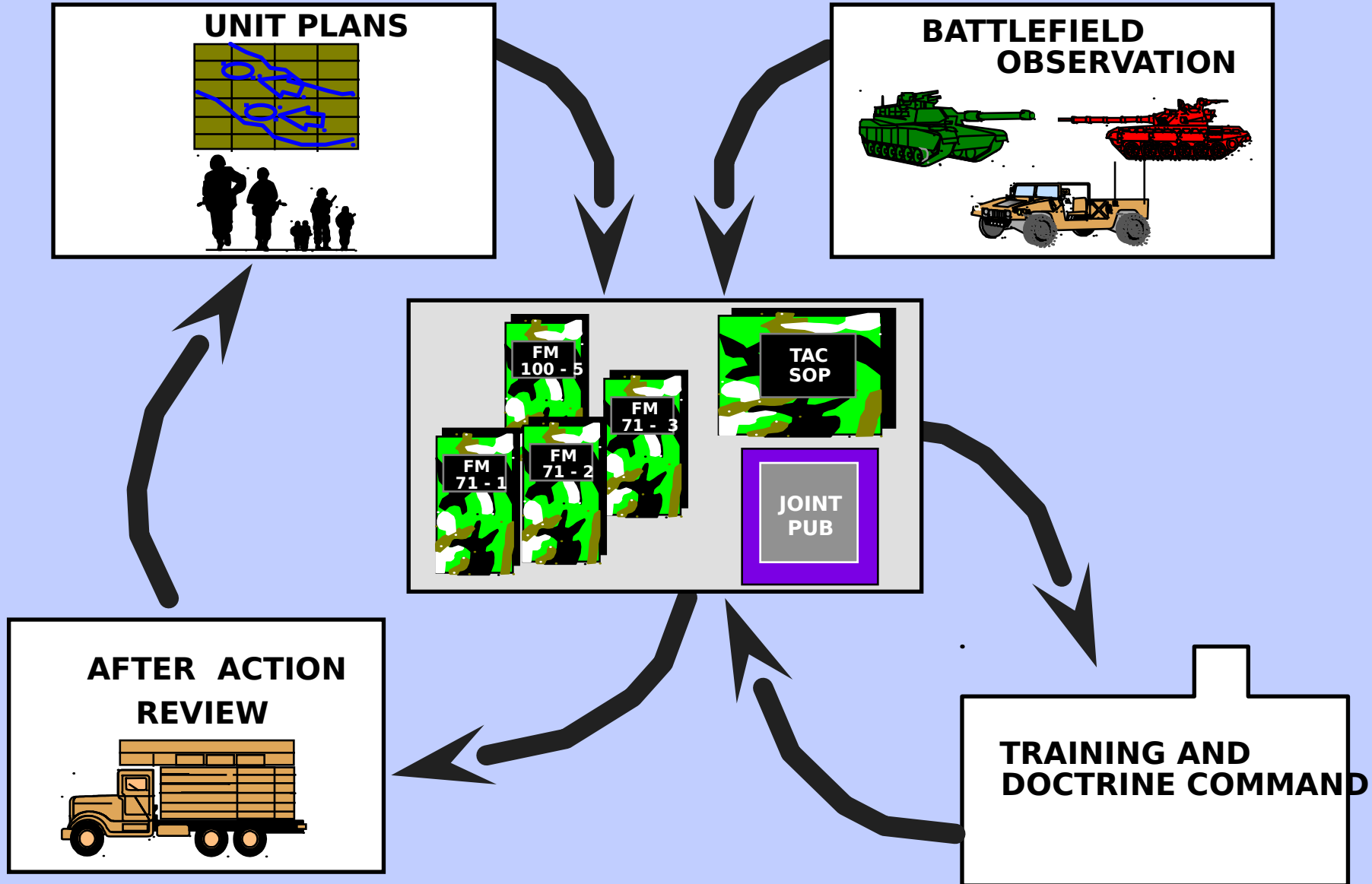


# The National Training Center

- The NTC provides the most realistic & unique training environment In the world today
- The NTC is approximately 1,000 square miles, roughly the size of Rhode Island
- OCs are neutral observers who observe and analyze performance throughout the planning, preparation and execution of all missions
- OCs enforce the ROE and ensure all MILES equipment is operational



# DOCTRINE BASED TRAINING



# Key Aspects of The NTC



**Comprehensive  
"Road to War" Training**

**Contingency Based  
Scenarios**

**Dedicated  
Opposing Force**

**Instrumented  
Battlefield**

**Full-Time  
Observer Controller**

**Doctrine Based  
Training**

**Sophisticated  
Live Fire Training**

**Joint Training**

**Training Process  
(After Action Review)**

# Climate and Topography

## **Temperatures**

**Average Summer High - 100\* F**

**Average Winter Low - 37\* F**

**Highest Record Temp - 125\* F**

**Precipitation - 4-6 inches per year**

## **High Desert**

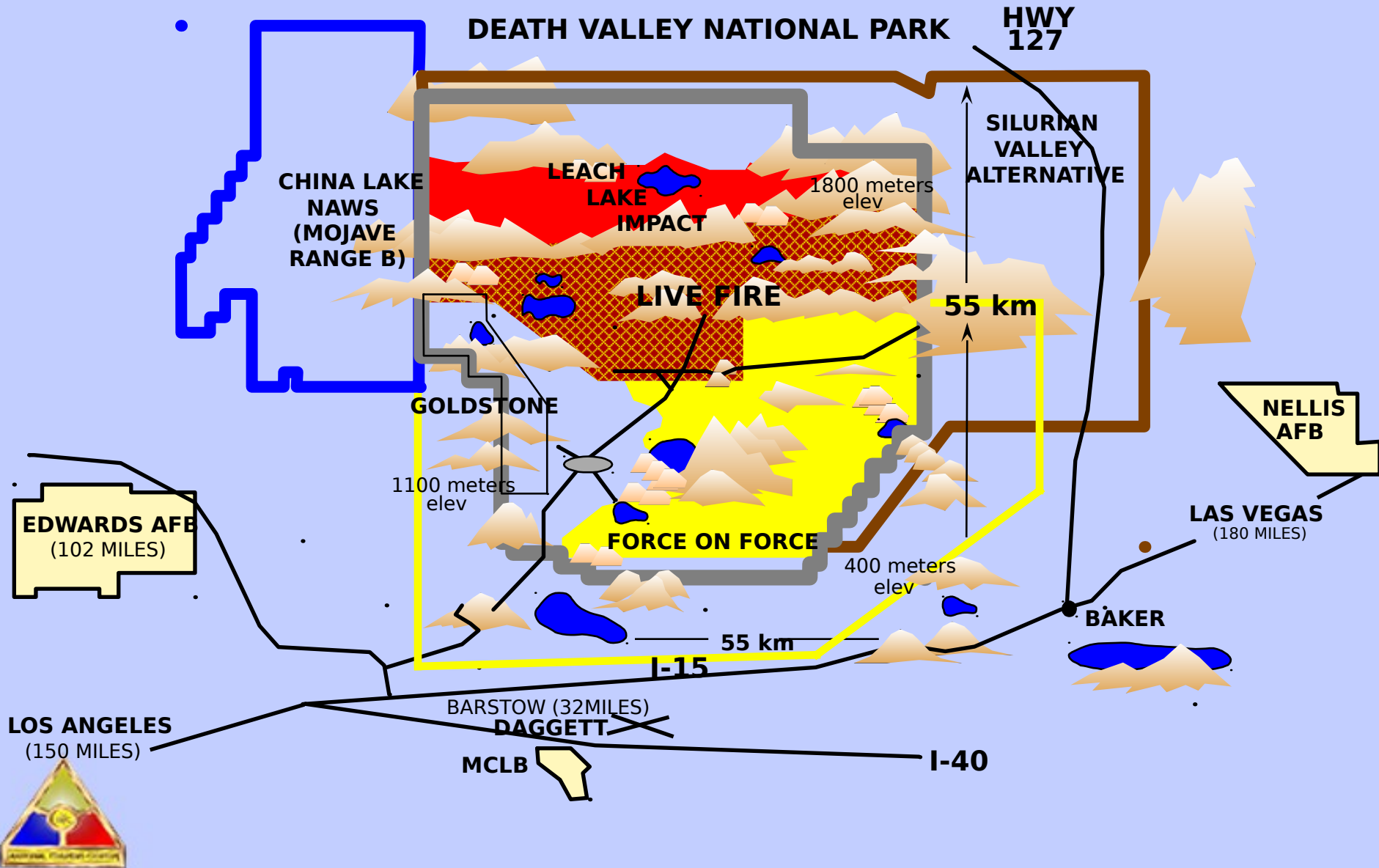
**High Point - 6818 Feet**

**Low Point - 1300 Feet**

**High Winds Common**

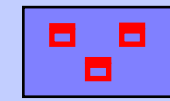


# NTC Training Area



# Tierra Del Diablo

**GEO-POLITICAL  
SITUATION**



THE KINGDOM  
OF PARUMPHIA



THE REPUBLIC  
OF MOJAVE



THE PEOPLE'S  
DEMOCRATIC  
REPUBLIC OF  
KRASNOVIA



THE BAJA  
REPUBLIC

**INCREASING  
TENSIONS**

**CONFLICT**

D-120

D-114

D-90

D-45

D-7

D

- LEADER  
TRAINING  
PROGRAM

- UNIT SCENARIO  
APPROVED

- UNIT RECEIVES  
IRCOM OPLAN

- JCS ALERT  
ORDER

- INTEL UPDATE

- INN VIDEO

- JCS DEPLOYMENT  
ORDER

- INN VIDEO

- UNIT  
ARRIVAL

- TACTICAL  
OPERATIONS

**ROAD TO WAR  
TIMELINE**

**RSOI**



**Kuwait  
Intrinsic  
Action**

**Mojavia**

**Bosnia**

**Haiti**

**Terrorist  
Attacks**

**Force  
Protection**

**Media  
Encounters**

**Chemical  
Defense**

**RSOI**

**Tactical Operations**

**Regeneration**

**TBM  
Strikes**

**Peace  
Operations**

**Civilians on  
the Battlefield**

**Rear Area  
Operations**

**Rwanda**

**Korean  
Peninsula**

**Somalia**



# RESULTS

**“ I started the war with 108 tanks and 86 armored personnel carriers. The air attacks caused a loss of my armored personnel carriers while 90 of my 108 remained serviceable. Within minutes of contact with American armored forces on 26 February, I had lost them all.**

**Colonel Mohammed Ashad  
Commander 50th Armored Brigade  
Tawakalna Republican Guard**

**A Company Commander's response to a question concerning his units' success during Desert Storm...**

**“ I had already fought the battle three times at the National Training Center.”**



# NTC Prepositioned Fleet

**AWR(NTC)**

**BLUE  
BRIGADE**

**GOLD  
BRIGADE**

**OR  
FLOAT**

**Replicates Worldwide AWR stocks**

- Procedures
- Battlebooks

**Contractor Maintained  
Co/Tm Draw in Brigade Sets**

**970 TRACKS  
2400 WHEELS  
388 OTHERS**

# Reception, Staging, Onward Movement and Integration

**OPERATIONS**

**ENTRY  
OPERATIONS**

**POST CONFLICT/  
POST CRISIS  
OPERATIONS**

**DEPLOYMENT**

**REDEPLOYMENT**

**PREDEPLOYMENT  
ACTIVITIES**

**DEMOBILIZATION**

**MOBILIZATION**

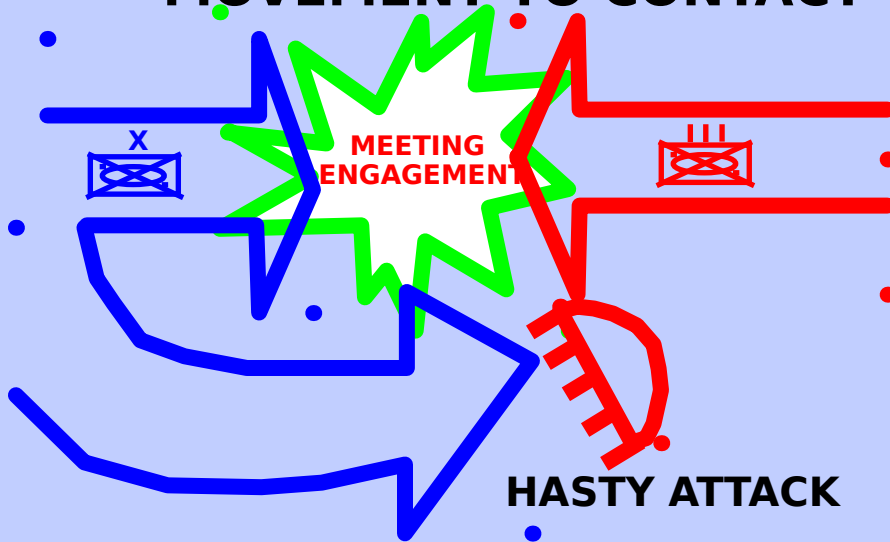
**TRAIN THE FORCE**

**FM 100-5**

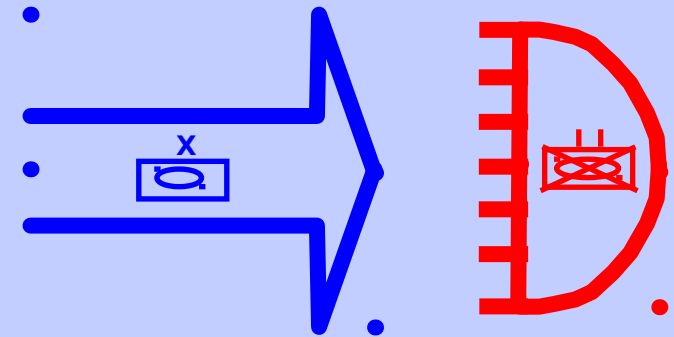


# Typical Tactical Missions

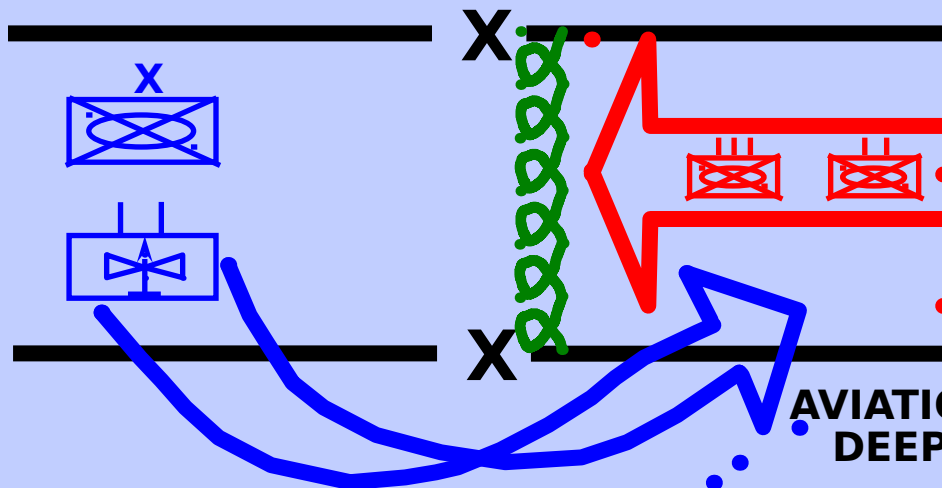
## MOVEMENT TO CONTACT



## DELIBERATE ATTACK



## DEFEND IN SECTOR



## OTHER OPERATIONS

- RECONNAISSANCE
- SECURITY
- FORCE PROTECTION
- CONTINUOUS LOGISTICS



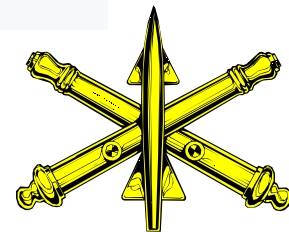
# O/C Organization & Tasks



## ADA Trainers



National Training Center

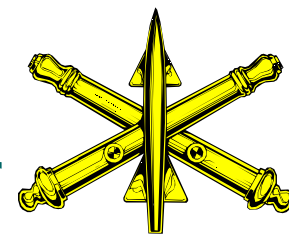




# Who Are the OCs



- **As Coaches**
  - Analyze application of doctrine and assist unit training through formal and informal AARs
  - Help unit improve tactics, techniques and procedures
- **As Observers**
  - Observe and analyze unit performance throughout mission planning, preparation and execution
- **As Controllers**
  - Apply battlefield effects, assess casualties and enforce the ROE







# ADA Trainers (OPS GRP)

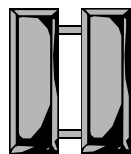


LTC SFC SFC SFC SFC SSG SSG SSG SSG SSG  
Salter Maynard Hummel Johnson Pope Harris Caldwell Gruidl Booth Pond



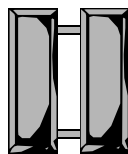
General Support  
Brigade Trainers  
(Broncos)

CPT  
Meno



Division  
AD Officer  
(Lizard)

CPT SFC  
Solli Ruterbories



Armor  
TF Trainers  
(Cobras)

CPT SFC  
Essary Jones



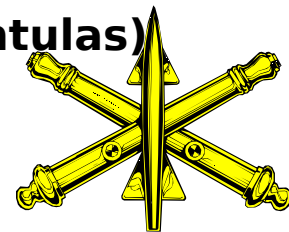
Mechanized  
TF Trainers  
(Scorpions)

CPT SFC  
Rothermel Maxwell



Light  
TF Trainers  
(Tarantulas)

National Training Center

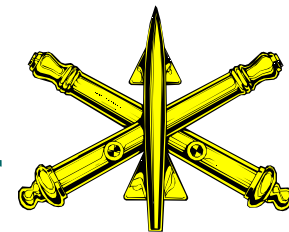




# OCs Will Not



- **Substitute for higher headquarters**
- **Circumvent unit chain of command**
- **Interfere in planning or execution of missions except safety and ROE**

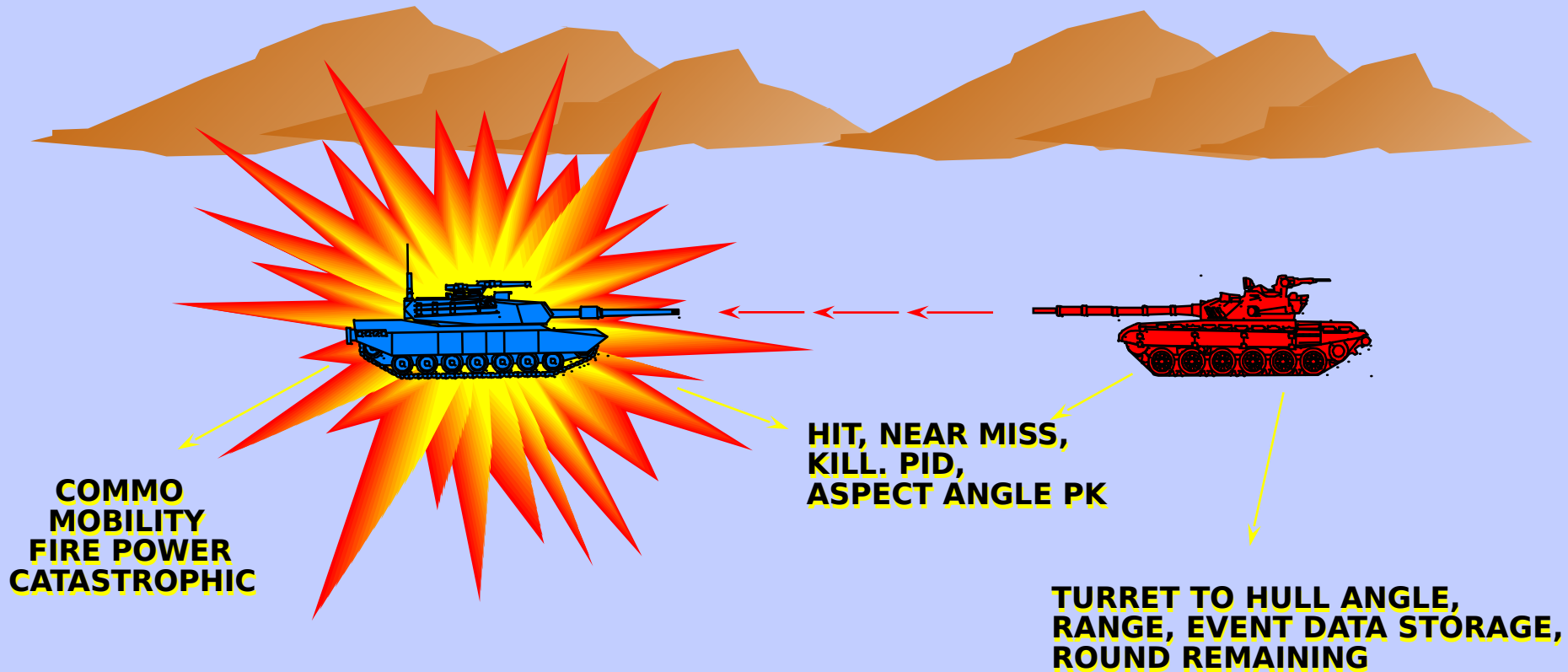


# Multiple Integrated Laser Engagement System (MILES)





# Direct Fire Simulation

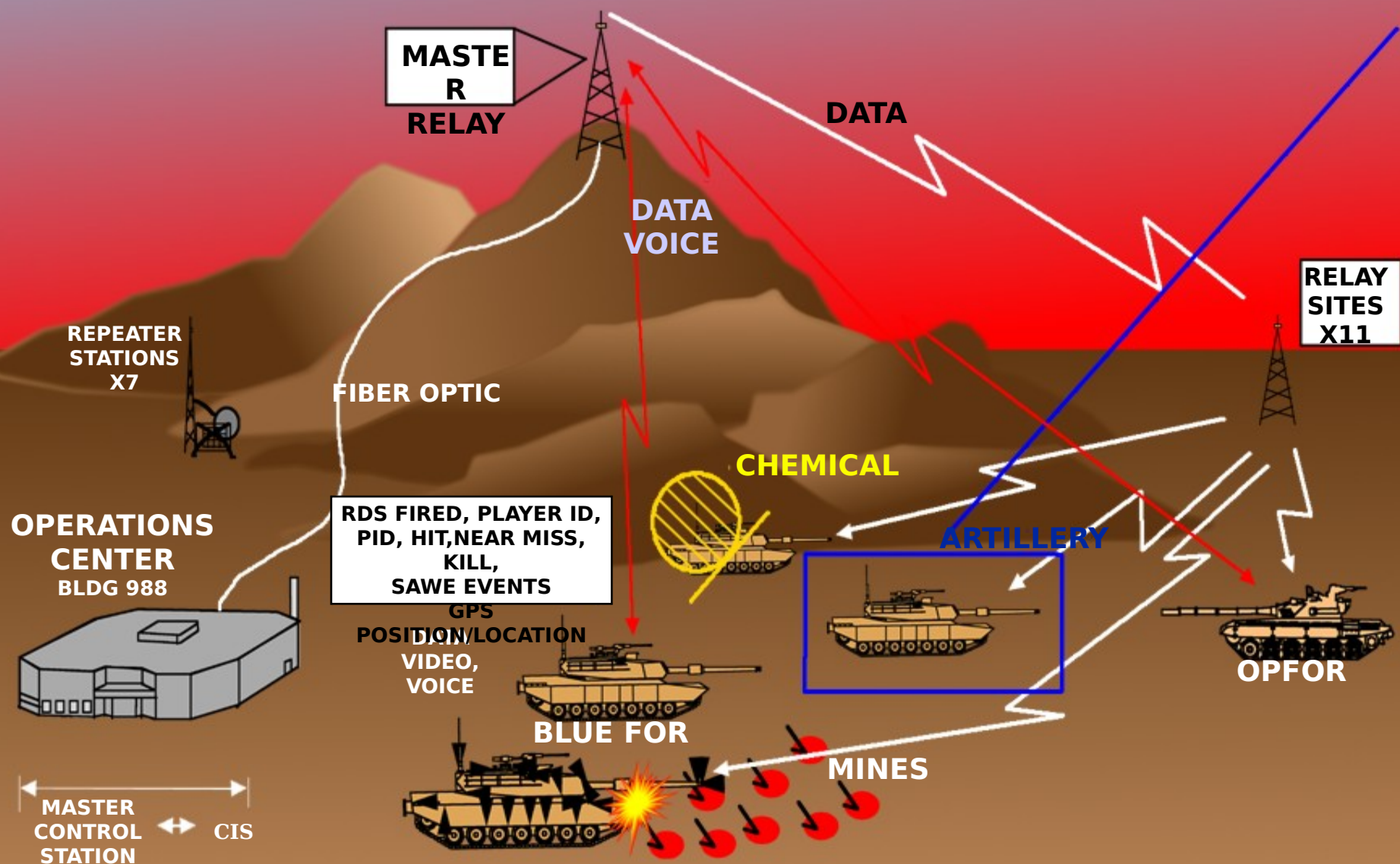


**2200 TOTAL PLAYERS  
(2000 PLAYERS & 200 SPARES)  
WITH CAPABILITY TO  
EXPAND TO 4000**



# Indirect Fire Simulation

## SIMULATED AREA WEAPONS EFFECTS (SAWE)



# USAF NTC AW

# TELEMETRY STATION

GP  
1S

**SAWE RELAYS x11**

**VOICE** **SAWE**

**RDMS**  
**BLDG 130**

**NELLIS AFB**  
**NTC-AW**

# BLUE

## MILES II

# OPFOR

## AFTER ACTION REVIEW SITE



# AIR WARRIOR PROGRAM



**LARGEST JOINT CAS TRAINING PROGRAM IN THE WORLD**

**150-250 SORTIES/ROTATION**

**BOTH BLUEFOR AND OPFOR PROVIDED CAS  
AIRCRAFT COME FROM ALL PARTS OF  
CONUS/EUROPE**

**AIRCRAFT CARRY AN AIR WARRIOR  
INSTRUMENTATION PACKAGE WITH INTEGRATION  
INTO NTC - INSTRUMENTATION SYSTEM  
TRAIN THE WAY WE PLAN TO FIGHT**

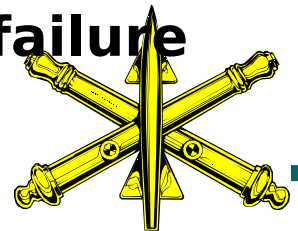




# Stinger MILES vs Actual



- **Actual Stinger**
  - 4 variants (Basic, POST, RMP, Block I)
  - Range > 5 km
  - IFF capable
  - Both TC and GNR have a Stinger at the firing position
  - Open sight “iron sights”
  - Fire and forget
  - 10< sec crew drill
- **MILES Stinger**
  - Pk based on Basic version of Stinger
  - Range 3750
  - No IFF capability
  - 1 per BLUFOR team
  - Optical sight
  - Uses only two of the three superelevation reticles
  - Track target for 8-10 seconds
  - Extremely high failure rate

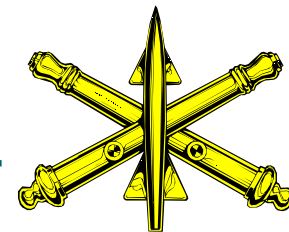




# FOFT MILES vs Actual



- **Avenger / Linebacker**
  - Range > 5 km
  - Fire and Forget
  - 4 variants (Basic, POST, RMP, Block I)
- **FOFT**
  - Range 3750
  - Must track for 8-10 seconds after trigger pull (until pod superelevates)
  - Based on Basic Stinger missile capabilities

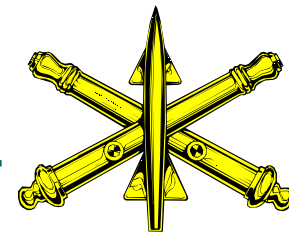




# MILES



- **Who wears MILES:**
  - **Everybody forward of the rear BDE boundary will have MILES to include Visitors and Contractors**
  - **If switching between Kevlar and CVC helmet the MILES halo must also be swapped over**
  - **Those not wearing complete MILES gear, or without a miles casualty card will be automatically assessed by an OC as a KIA.**

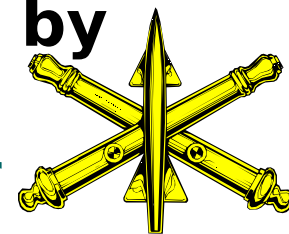




# MILES



- **MILES is the units responsibility, period!**
- **MILES will be incorporated into your PCC/PCIs**
  - Boresight
  - Clean laser lenses
  - Test fire weapons
  - Replace batteries
- **Lithium vehicle batteries will be supplied by the OCs, 9-volt batteries are the unit responsibility**
- **Report MILES malfunctions to the OCs**
- **Vehicles will be checked prior to battles by the OCs to insure MILES is operational**



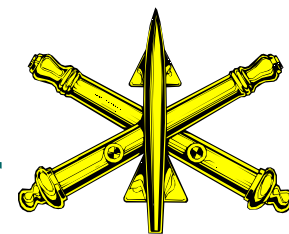




# **MILES Contact Teams**



- **MILES is the units responsibility, period!**
- **MILES contact teams are placed to correct MILES deficiencies (0900-1430 hrs, approximately).**
- **Your OC will notify you when and where to go.**
- **MILES contact teams are manned by civilians, do not argue with them. If there is a problem let your OC know.**
- **MILES signature card**
- **Remove ATWESS from Weapons(Avengers, Stingers etc....)**
- **Do not change bumper numbers**

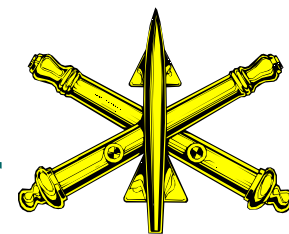




# **MILES During the Battle**



- **When MILES goes off during battles, stop look at the VDD for information, then initiate the casualty card. If unsure call your OC.**
- **To indicate that you are a casualty remove your Kevlar during (Force-on-Force only).**
- **If your MILES is NMC, no matter what you do right the other guy will win, MILES must work to win.**
- **MILES Cheating will not be tolerated**

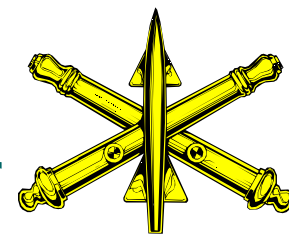




# Disconnecting MILES



- **Do not disconnect the lithium vehicle battery or gel pack (vehicle stops tracking)**
- **Do not disconnect the slave receptacle connector (except for slaving if the vehicle will not start)**
- **Disconnecting MILES will cause you to be pulled from the fight**



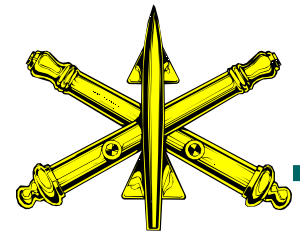




# MILES ATWESS



- **Always:**
  - Use caution when handling ATWESS
  - **Wear eye protection**
  - **Handle with leather gloves**
  - Check back blast area
  - Load as if a real munition
  - Keep out of pockets
- **Do not scrape paint off of the primer**
- **Color coding**
  - Stingers are **BLUE**
  - Dragon are **GREEN**
  - Viper are **YELLOW**
  - TOW are **RED**

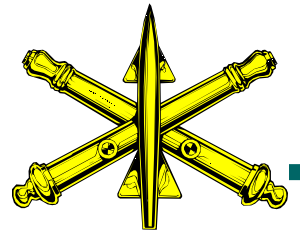




# Engaging the OPFOR



- **Physical contact between OPFOR and BLUEFOR is forbidden**
- **If pursued by an OPFOR vehicle do not drive your vehicle in such a manner as to put your crew in an unsafe situation. Stay calm and try to maneuver away from the OPFOR.**

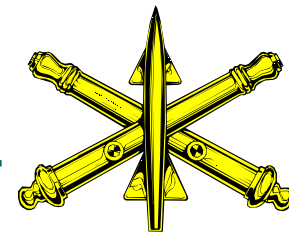




# Safety Kill & Charging Rule



- **Close combat is not permitted, the following distances apply:**
  - **Between vehicles, or vehicles** - 50 meters
  - **personnel:** - 50 meters
  - **Dismounted soldiers:** - 10 meters
- **Minimum arming distances also apply**
  - **Example:**
    - **Dragons, TOWs, and AT5s are ineffective at less than 50 meters.**





# Safety Kill & Charging Rule

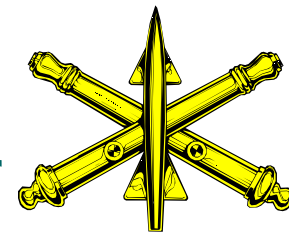


- **Safety Kill**

- When a target appears at less than the prescribed distance, TCs will cross their arms over their faces to signify they are engaging.
- The killing vehicle(s) must discharge their weapons in a safe direction to account for the kill(s), if this does not happen an assessment will not be made on the vehicle being engaged.

- **Charging Rule**

- Intentional charging will result in the charger being assessed as a penalty kill.
- Do not approach track vehicles







# Casualty Cards

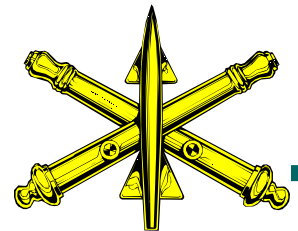


**RTD** - Is given to at least one person on each vehicle, he is there to maintain accountability only, cannot continue in fight and does not have to be evacuated.

**Walking Wounded** - Must be evacuated within 6 hrs

Treatment by a CLS adds 30 minutes to the time

When told by an OC to activate your casualty card, that is the report you send as casualties, NOT "I'm dead" there is no time limit to send last dying breath.

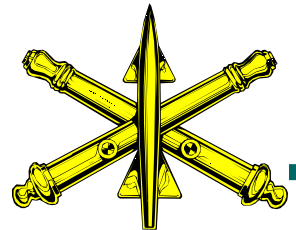




# Personnel Reconstitution



- **Casualties evaced to C-MED become:**
  - **Replacements if treated in time**
  - **DOWs if not treated in time**
- **Replacements move from C-MED to Rear CP**
- **DOWs move from GREGG site to Rear CP**
- **Replacements/DOWs are briefed, inspected and moved from Rear CP to unit control**

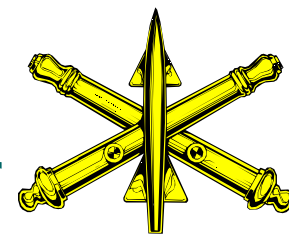




# Vehicle Reconstitution



- **Losses must be reported by bumper #, vehicle type and unit to rear CP**
- **OCs will periodically ask for report from rear CP**
- **5 hours after BDE S4 receives the report, the vehicle will receive a re-key time.**
- **NO REPORT, NO REKEY!**

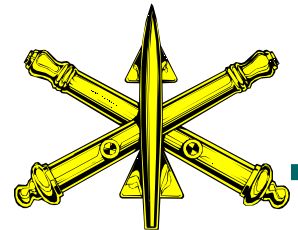




# NBC & FASCAM



- **NBC**
  - **OCs will exchange one-for-one M256 kits**
- **FASCAM**
  - **Usually 400x400 meter area**
  - **Marked on all four corners by barber poles**
  - **Marked by yellow smoke**





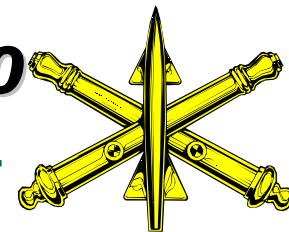


# MEDEVAC



- It is not the OCs responsibility to call in real world MEDEVAC
- At a minimum the leadership should have on-hand a red star cluster and red smoke
- Each vehicle will have a GTA card describing NTC MEDEVAC procedures

***Fixed MEDEVAC FM freq. is 38.900***



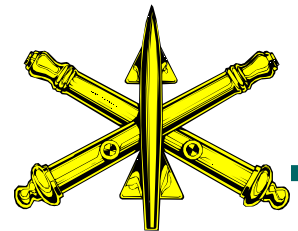


# General Safety



**100% Accountability at all times!!!**

- Heat injury is the number 1 injury at the NTC
- Review heat and cold weather injury procedures
  - Drink plenty of fluids and eat properly
  - Develop work plans
- Units will utilize risk assessments
- Protect against sunburn
- In summer, accomplish tasks early
- Conduct personal hygiene daily

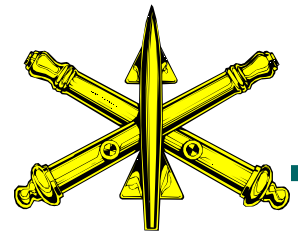




# General Safety



- Do not pick up any item that looks remotely like a **DUD**. Do not pick up souvenirs!
- Units must be cautious when occupying wadis. Flash floods occur quickly
- Establish safe sleeping areas
- Sleeping areas will be cordoned off with white engineer tape (I-AA-9)
- Do not sleep in enclosed vehicles with the engine or heater running (I-A-9)
- When erecting OE-254 antennas, soldiers will have leather gloves, Kevlar and eye protection

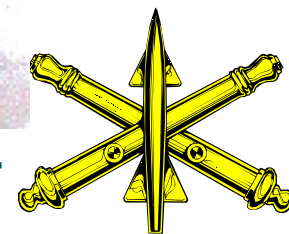




# Fratricide

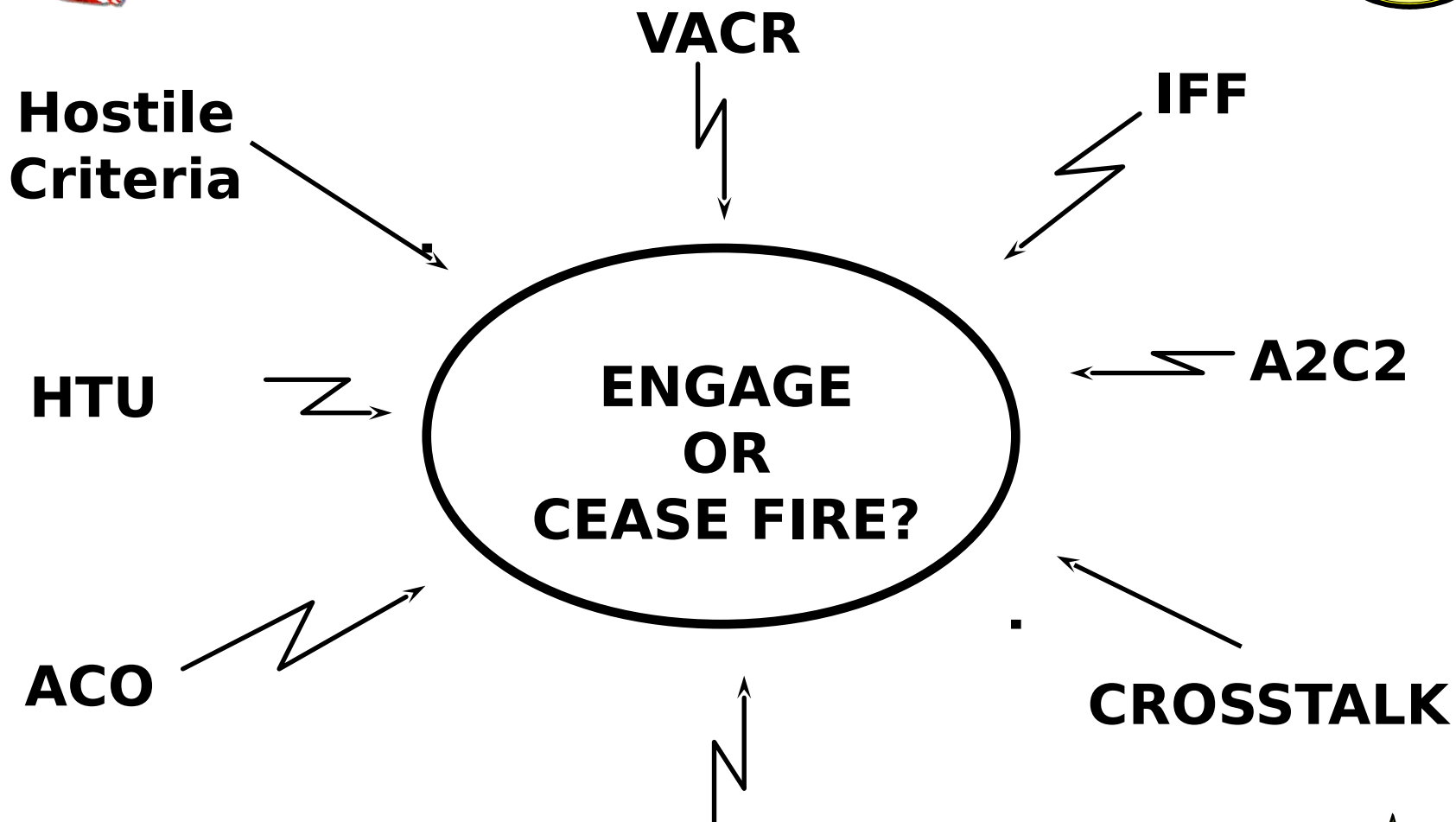


National Training Center



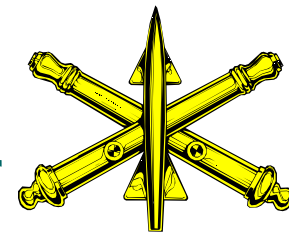


# How to Prevent a Fratricide



**DIVISION EARLY WARNING**

**National Training Center**

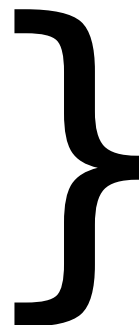




# Force XXI Risk Management

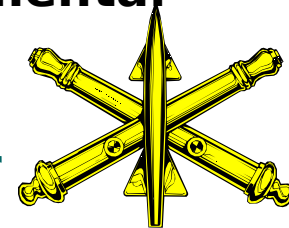


- Identify the hazards
- Assess hazards
- Develop controls
- Implement controls
- Supervise



**Includes Tactical Risk  
and Accidental Risk**

- Brief at platoon OPORD and Rehearse!
- **Tactical Risk:** Hazards that exist due to the presence of the enemy on the battlefield (Obstacles / Air Attack)
- **Accident Risk:** All hazards concerning friendly personnel, equipment readiness, and environmental conditions





# Risk Management

**Supervise  
& Evaluate**

**Implement  
Controls**

**Risk Control  
Options &  
Decision**

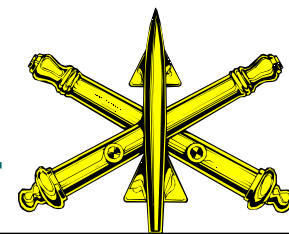
**Risk  
Assessment**

**ID Hazards**

**Evaluate  
Controls**

**Implement  
New Controls  
If Needed**

**Update  
Risk  
Assessment**



**National Training Center**



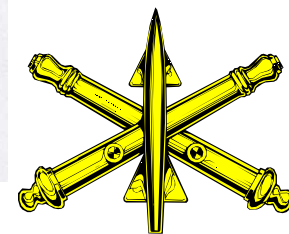
# Risk Management Worksheet

## TFXXI Risk Management Worksheet

PAGE 1 of

1. MSN/TASK: <b>Execute Attack ARTEP 7-8-MTP (7-3/4-1100)</b>		2. DTG BEGIN: 0100 END: 0700		3. DATE PREPARED: 23 Feb XX		
4. PREPARED BY: <b>2LT Eager, 1st Plt Ldr Co. B</b> (Rank/Last name/Duty position)						
5. HAZARDS	6. INITIAL RISK LEVEL	7. CONTROLS	8. RESIDUAL RISK LEVEL	11. HOW TO IMPLEMENT	12. HOW TO SUPERVISE	13. CONTROLS EFFECTIVE ?
Obstacles	E	Develop and use obstacle reduction plan	H	Unit TACSOP OPORD Eng handbook	Cont supv	Y
Inexperienced soldiers	H	Ensure experienced soldiers are distributed throughout the platoon	M	Battle roster	Cont supv	Y
Operating under limited visibility	E	Use NVDs Use IR markings on vehicles	E	Unit TACSOP OPORD	PCC/PCI Cont supv	Y
Steep cliffs	H					
Insufficient planning time	E					
9. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (CIRCLE ONE): <b>LOW MODERATE HIGH EXTREMELY HIGH</b>			10. RISK DECISION AUTHORITY: (Rank/Last name/Duty position) <b>LTC Bart, BN CDR</b>			

Worksheet required for each mission  
Battery level and Platoon!



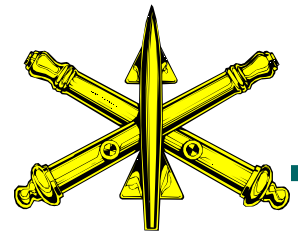




# Vehicle Safety



- **Vehicle speeds (conditions permitting!)**
  - **Wheel day = 35 mph**
  - **Track day = 20 mph**
  - **Wheel night = 20 mph**
  - **Track night = 15 mph**
- **Light line, no white lights in maneuver area**
- **Turn lights on when on post**
- **Air guards and personnel without windshields must wear eye protection**

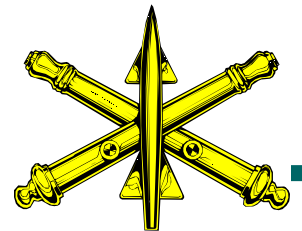




# Vehicle Safety



- **Use tank trails whenever possible**
- **Conduct rollover drills**
- **Seatbelts must be worn at all times**
- **Vehicles must be configured properly to carry troops**
- **Troop straps must be in place when transporting casualties and troops**
- **Tie down equipment securely**
- **Fuel and water topped off before movement**
- **Ammo carrier's with ammo can not transport troops.**

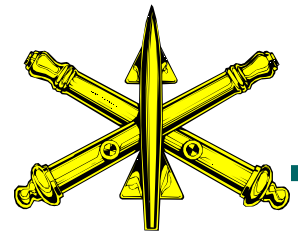




# Vehicle Safety



- Vehicles without operational FM radios **WILL NOT** move on their own
- Travel using a planned route, ensure others are aware of the route taken, this will help if a search occurs
- The battery **WILL NOT** change bumper numbers
- Track vehicles/Avengers will not operate without intercom
- Use ground guides when backing and in assembly areas





# Vehicle Safety



- Ground guides use red/green lens on flashlights or Chemlites at night
- TCs must remain awake and alert at all times
- Track vehicles -
  - Convoys will use tank trails to the left and right of the improved tank trail
- Use NVGs

***PLGR!!***



***Land Navigation with the***

22



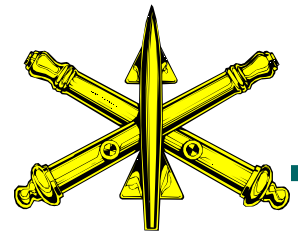




# Off Limits Areas



- **All Dry Lake beds**
- **Fenced off areas**
- **50 meters from all target pits**
- **500 meters from fixed structures**

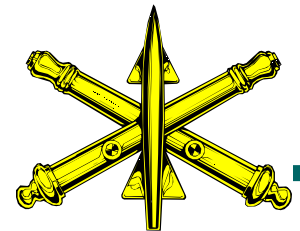




# Excavation



- **All personnel involved in digging operations that are not in a combat engineer vehicle or armored combat vehicle (ACE) will wear eye protection, flak jacket and Kevlar helmet.**
- **No digging at night or in electrical storms**
- **Vehicles must have on-hand proper marking materials for fighting positions, prior to digging.**

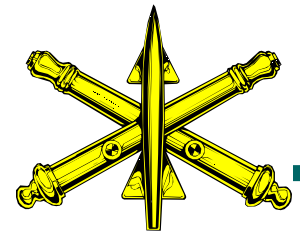




# Excavation



- **At a minimum:**
  - **Four U shaped pickets**
  - **White engineer tape**
  - **Chemlites**
- **Once the battle is complete, vehicles will remain until position is filled or until the position is properly marked. (I-A-1-1/2)**





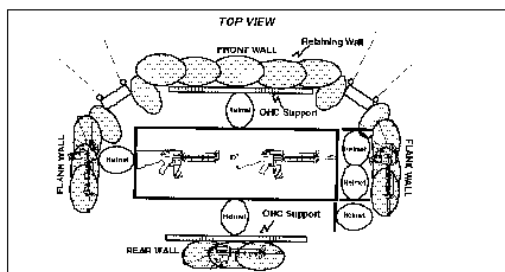
# Fighting Positions



## FIGHTING POSITION CONSTRUCTION INFANTRY LEADER'S REFERENCE CARD

### 2-MAN FIGHTING POSITION WITH BUILT-UP OHC

STAGE 2: Place Supports for OHC Stringers/ Construct Parapet Retaining Walls (H+5 → H+1.5 hrs)



#### - Leader's Checklist -

#### Prepare:

OHC Supports to Front and Rear of Position:

- Ensure at least 1 foot (about 1-helmet length) or 1/4 cut, whichever is greater, distance from the edge of the hole to the beginning of the supports needed for the OHC
- If logs or cut timber are used, secure in place with strong stakes about 2 to 3 inches in diameter and 18 inches long (short U-shaped pickets will work)
- Dig in about 1/2 height

Front Retaining Wall:

- At least 10 inches high (2 filled sandbags in depth) and two M16s long, rear retaining wall
- At least 10 inches high and one M16 long

Flank Retaining Walls:

- At least 10 inches high and one M16 long
- Start digging hole; use soil to fill sandbags for walls

#### Inspect:

Set back for OHC Supports - minimum of 1 foot or 1/4 depth of cut

GTA 7-6-1

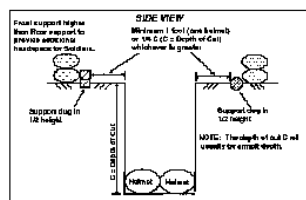
Headquarters, Department of the Army  
Dated January 1994

Page 4 of 17

## FIGHTING POSITION CONSTRUCTION INFANTRY LEADER'S REFERENCE CARD

### 2-MAN FIGHTING POSITION WITH BUILT-UP OHC

STAGE 3: Dig Position/Build Parapets/Place Stringers for OHC (H+1.5 → H+6hrs)



#### - Leader's Checklist -

#### Prepare:

Dig position:

- Maximum depth is armpit deep (if soil condition permits)
- Use spoil from hole to fill parapets in order of front, flanks, and rear
- Dig grenade sumps and slope floor toward them
- Dig walls vertically
- If site soil properties cause unstable soil conditions, construct revetments and also consider sloping walls
- Sloped walls: First dig vertical hole and then slope walls at a 1:4 ratio (move one foot horizontally for each 4 feet vertically)

Install revetments to prevent wall collapse/cave-in:

- Required in unstable soil conditions
- Use plywood or sheeting material (Reference page 14) and pickets to revet walls
- Tie back pickets/posts (Reference FM 5-103)

Place OHC Stringers/Reference page 13 for spacing and quantity:

- Stringers: 2"x 4", 4"x 4", or pickets (U-facing down)
- Standard OHC Stringer length 8 ft (Allows for length if sloping of walls occurs)
- L = Stringer Length and h = Stringer Spacing
- Second layer of sandbags in front and rear retaining walls removed to place stringers.
- Replace these sandbags on top of stringers once stringers are properly positioned.

#### Inspect:

- Stringers firmly rest on structural support
- Stringer spacing based on values found on page 13
- Lateral bracing placed between stringers at OHC supports
- Revetments built in unstable soil to prevent wall cave-in; walls sloped, if needed.

GTA 7-6-1

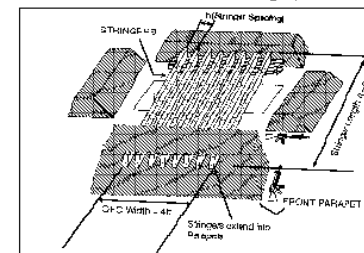
Headquarters, Department of the Army  
Dated January 1994

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## FIGHTING POSITION CONSTRUCTION INFANTRY LEADER'S REFERENCE CARD

### 2-MAN FIGHTING POSITION WITH BUILT-UP OHC

STAGE 4: Install OHC and Camouflage (H+6 → H+11 hrs)



#### - Leader's Checklist -

#### Prepare:

Install OHC:

- Use plywood, sheeting mat or foxhole cover for dustproof layer (could be boxes, plastic panel, interlocked U-shaped pickets (Reference page 14). Standard dustproof layer is 4'x4' sheets of 3/4-inch plywood centered over dug position.
- Nail plywood dustproof layer to stringers.
- Use minimum of 18 inches of sand-filled sandbags for overhead burst protection (4 layers). As a minimum, these sandbags must cover an area that extends to the sandbags used for the front and rear retaining walls.
- Use plastic or a poncho for waterproofing layer
- Fill center cavity with soil from dug hole and surrounding soil

Camouflage Position

- Use surrounding topsoil and camouflage screen systems

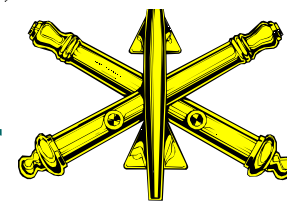
#### Inspect:

- Dustproof layer - plywood or panels
- Sandbags filled 75% capacity
- Burst layer of filled sandbags at least 18 inches deep
- Waterproof layer in place
- Camouflage in place
- Position undetectable at 35 meters
- Soil used to form parapets, used to fill cavity, or spread to blend with surrounding ground

GTA 7-6-1

Headquarters, Department of the Army  
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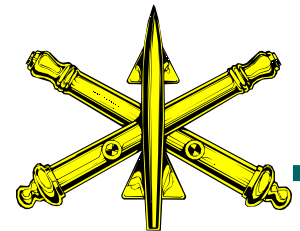




# Lost in the Desert



- **Positive control over personnel must be maintained to prevent safety issues and LID**
- **Lost in the desert**
  - **Stay in open terrain**
  - **Do not leave your vehicle (except in emergencies)**
  - **Vehicles are easier to find than individuals**
  - **Utilize panel markers**
  - **Use mirrors for signaling**
  - **Remain in radio contact**
  - **Seek cover from the sun**





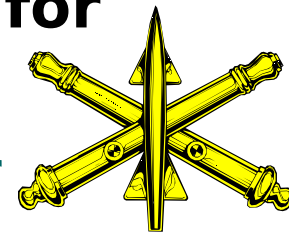
# Wildlife



- **Leave all types of wildlife alone, take all bites seriously, get medical attention ASAP.**
- **Do not attempt to feed any wildlife**

## Desert Tortoises

- **If you encounter a desert tortoise leave it alone, if it is in immediate danger carefully move it, hold it level to prevent urination (this will cause the tortoise to loose all body fluid and die). Also move it in the direction it was traveling. If in doubt call your OC to help with the situation. It is possible to receive a 50,000 dollar fine for killing a tortoise.**

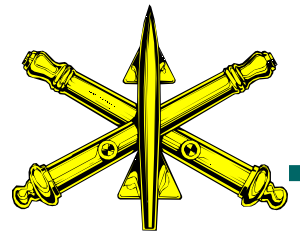




# Safety Summary



- **Everyone must understand MEDEVAC procedures**
- **Safety is everyone's responsibility**
- **Accountability must be maintained at all times!!!!**
- **Execute a safe rotation**



# **WORLD CLASS TRAINING FOR THE WORLD'S BEST ARMY.**



**TRAIN THE FORCE...  
NOW AND FOR THE 21st  
CENTURY**

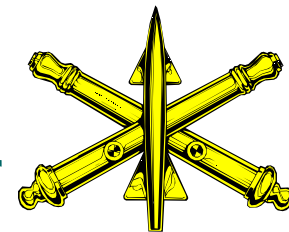




# NTC Threat

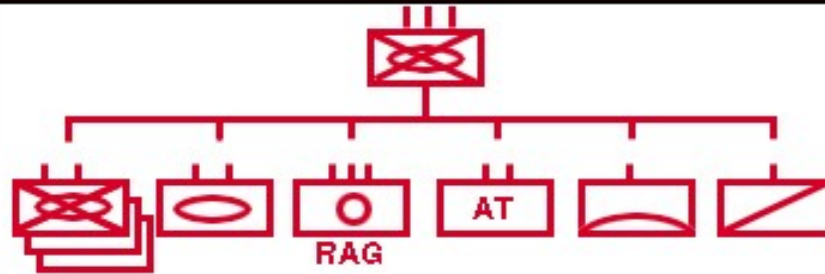


National Training Center



# VISMOD (VISUAL MODIFICATION) EQUIPMENT

T-80 BMP HIND  
BRDM 2A45 (AT GUN)  
ASETIV-SA14, SA8, SA9, ZSU



180  
KILLERS

## ACTUAL THREAT EQUIPMENT

BRDMs  
MT-12s  
BMP-2s

BMPs  
MT-LBs  
ACRV



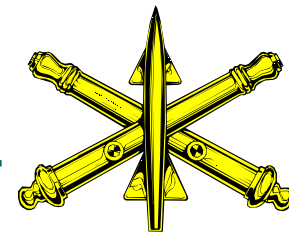
60th GUARDS MOTORIZED  
RIFLE DIVISION  
(KRASNOVIAN)



# OPFOR



- **The OPFOR is:**
  - **Well trained**
  - **An expert in the use of miles**
  - **An expert in using the NTC terrain**
- **The Hind:**
  - **Is a desert camouflage UH-1 mock up**
  - **MILES belts are above the nose and above and below both cargo doors**
  - **The pilots are experts in using terrain masking techniques**

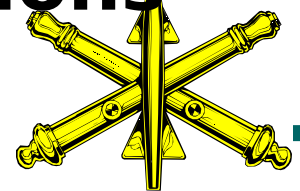




# Offensive Missions



- **Meeting Battle**
  - **Enemy is moving or location is unknown**
- **Deliberate Attack/Penetration Mission**
  - **Attack Against a Defending Enemy**
- **Other Offensive Missions**
  - **Raiding Detachment**
  - **Recon Detachment**







# Types of Defense



- **Defense Out of Contact**
  - Security Zone
  - 1st Echelon Defense
- **Defense in Contact**
  - Covering Zone
  - Forward Position
  - Active Defense!!!  
[local counterattack]



**Defense is only temporary- Resume the Attack!**

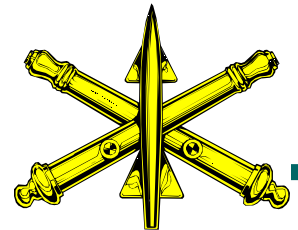




# OPFOR Imperatives



- Successful Reconnaissance ★
- Shape the Battlefield ★  
Light Companies, Engineers,  
Special Munitions
- Simultaneous Attacks in  
Battlefield Depth ★
- Protect the Force  
Get every system into the fight
- Mass Combat Power  
Retain the ability to maneuver
- ★ Implies the Use of Red Air





# The Air Threat at NTC



- **THE OPFOR AIR WILL SUPPORT THE OFFENSE IN 4 PHASES:**
  - **PHASE I: SUPPORT FOR MOVEMENT FORWARD**
  - **PHASE II: AIR PREPARATION**
  - **PHASE III: SUPPORT OF THE ATTACK**
  - **PHASE IV: AIR ACCOMPANIMENT**
- **IN THE DEFENSE HELICOPTERS ARE NORMALLY HELD IN RESERVE AS A MOBILE COUNTERATTACK FORCE BUT CAN BE USED TO SUPPORT THE COVERING FORCE, REPULSE AN ENEMY ATTACK, SUPPORT COUNTER ATTACKS AND RECONNAISSANCE STRIKE GROUP. (TRADOC PAM 350-16)**

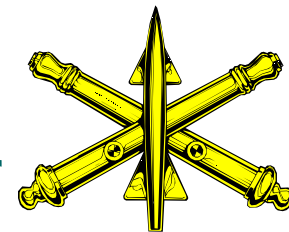




# Timeline



<b>H-36</b>	<b>Division Recon RL</b>
<b>H-12</b>	<b>Regimental Recon/ Infantry Infiltration</b>
<b>H-45min</b>	<b>CRPs RL</b>
<b>H</b>	<b>FD or FSE (AG) RL</b>
<b>H+1</b>	<b>MRR Main Body</b>
<b>H+2</b>	<b>MRR Second Echelon</b>





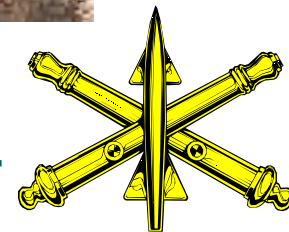


# Division Reconnaissance



**MISSION - zone and route recon to  
confirm  
enemy location and intent**

- **Engage HVT based on CDR  
guidance**

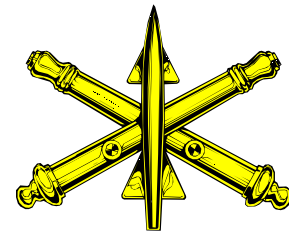




# Regimental Reconnaissance



**MISSION - Zone and route recon to  
confirm  
enemy situation and answer  
PIRs**





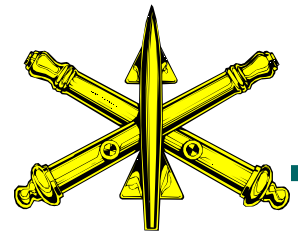
# Task Force Destroyer



**MISSION - [Task] seize key terrain and/or destroy CO/TM; [Purpose] protect the flank of the MRR**



- **Truck insert and move dismounted**
- **Light IN 100 PAX / 3x AT-5 / 1x 120mm Mortar BTRY**



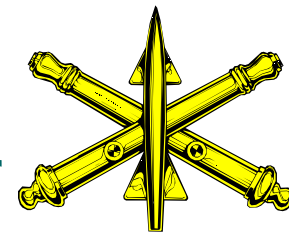


# Task Force Angel



**MISSION- [Task] Seize key terrain and/or destroy enemy; [Purpose] Protect the flank of the MRR**

- **Light Company (100PAX / 3x AT-5s / 4x 82mm m**
- **Truck insert capable**
- **False insertion and split insertions authorized**





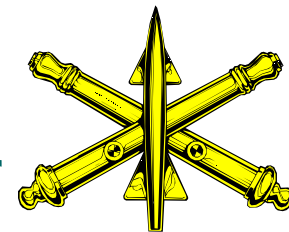


# Hind (SOKOL)



**MISSION - Flank security, support the point of penetration, defeat counterattacks, or conduct armed recon**

- **AT-6 (spiral), 30mm MG, 57mm rockets**
- **Max kill range 4000m**



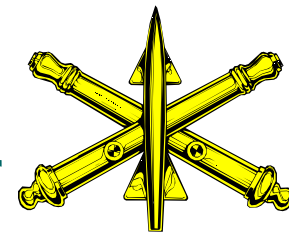




# Hind in Offensive Ops



- **Used as recon on high ground when MRR passes through a defile**
- **Protects the flanks of the MRR**
- **Attacks the point of penetration and BPs during breach operations**
- **Assists during securing the Objective**
- **Fights as part of a coordinated arms team**

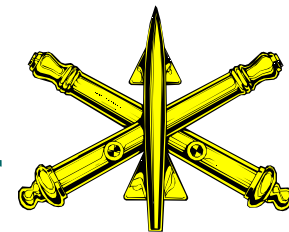




# Hind in Defensive Ops



- Conducts counter-recon operations along the flanks, rear, and forward of the FLOT (2 hour duration AM/PM)
- Provides recon and protects any unobserved or weak points of the defensive belt
- Backstops the RD at possible penetration
- Conducts anti-infantry sions and attacks on assailable fl



**WHICH IS RED??**



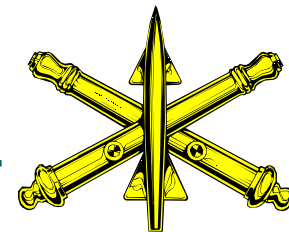


# Red Air



**MISSION - To destroy counter-attacking or defending enemy forces through the depth of the formation**

- sortie number and type vary (F16/A10)
- fly a predesignated altitudes
- controlled by the MRR TAC
- **No MILES KILL = *Volume of Fire***

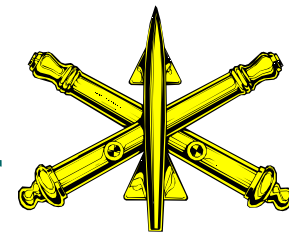




# Counter Air Assault Planning / Targeting



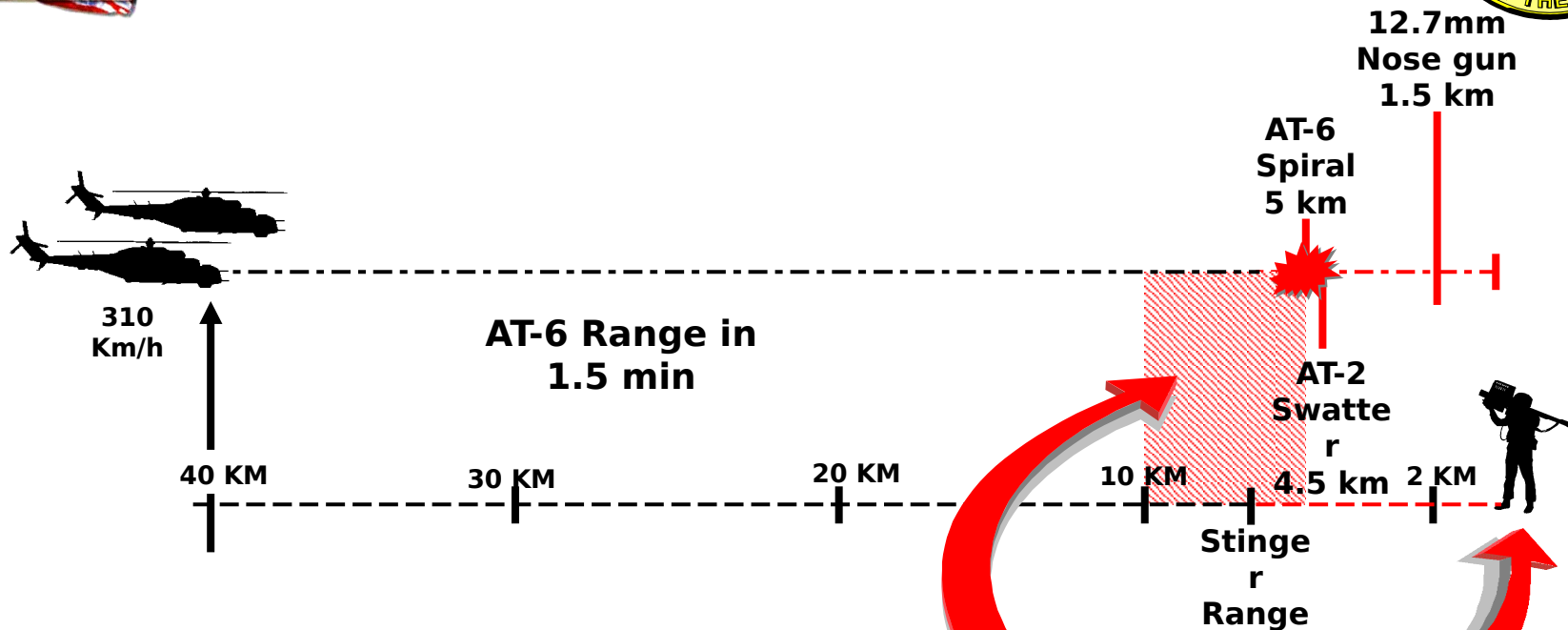
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# WHY WE NEED EFFECTIVE EARLY WARNING

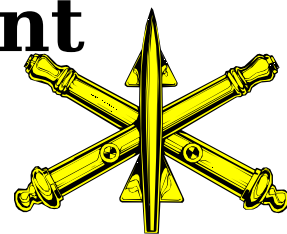


Within this critical zone  
the team must:

- Detect
- Acquire
- Identify
- Engage
- Destroy

## Small Engagement Window

National Training Center

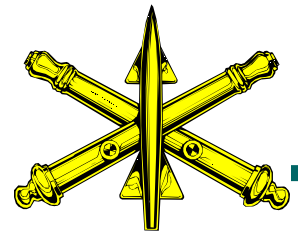




# Planning Considerations



- **When, Where is an air assault most likely?**
- **ID Potential Air Assault Objectives**
- **ID LZs**
- **ID Air Avenues of Approach (cover ingress routes)**
- **Develop a Combined Arms Plan**

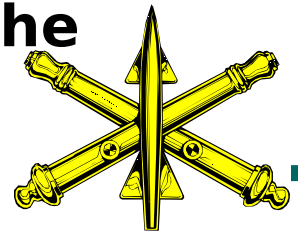




# Planning Considerations



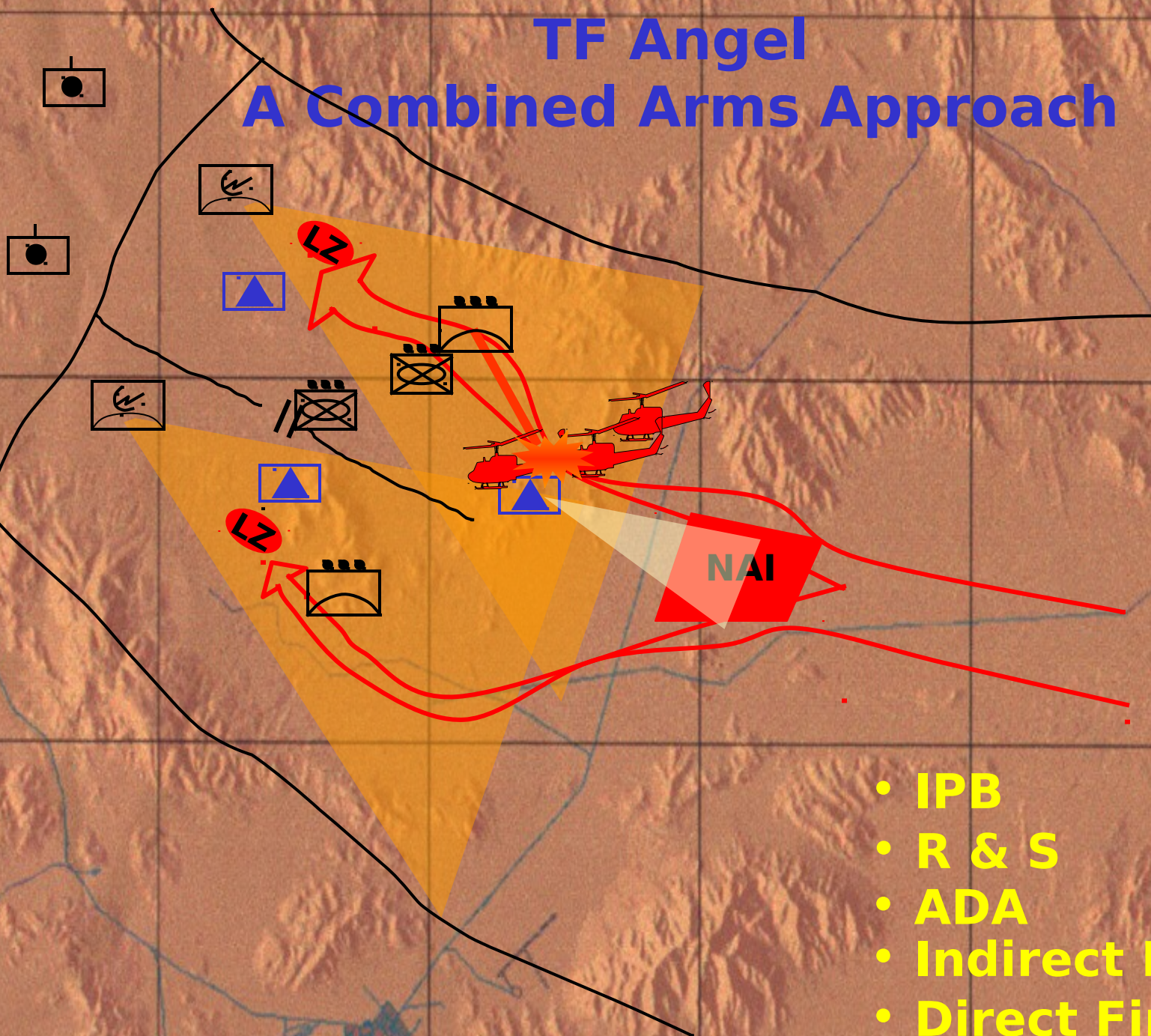
- Develop a combined arms plan:
  - R&S assets: Scouts & ADA radars position to observe NAIs
  - ADA: Positioned to destroy inbound A/C, team security
  - Indirect Fires: Mortar TRPs with observers on suspected LZs
  - Maneuver/Aviation: Quick Reaction Force (QRF) prepared to destroy dismounts on the ground





# TF Angel

## A Combined Arms Approach

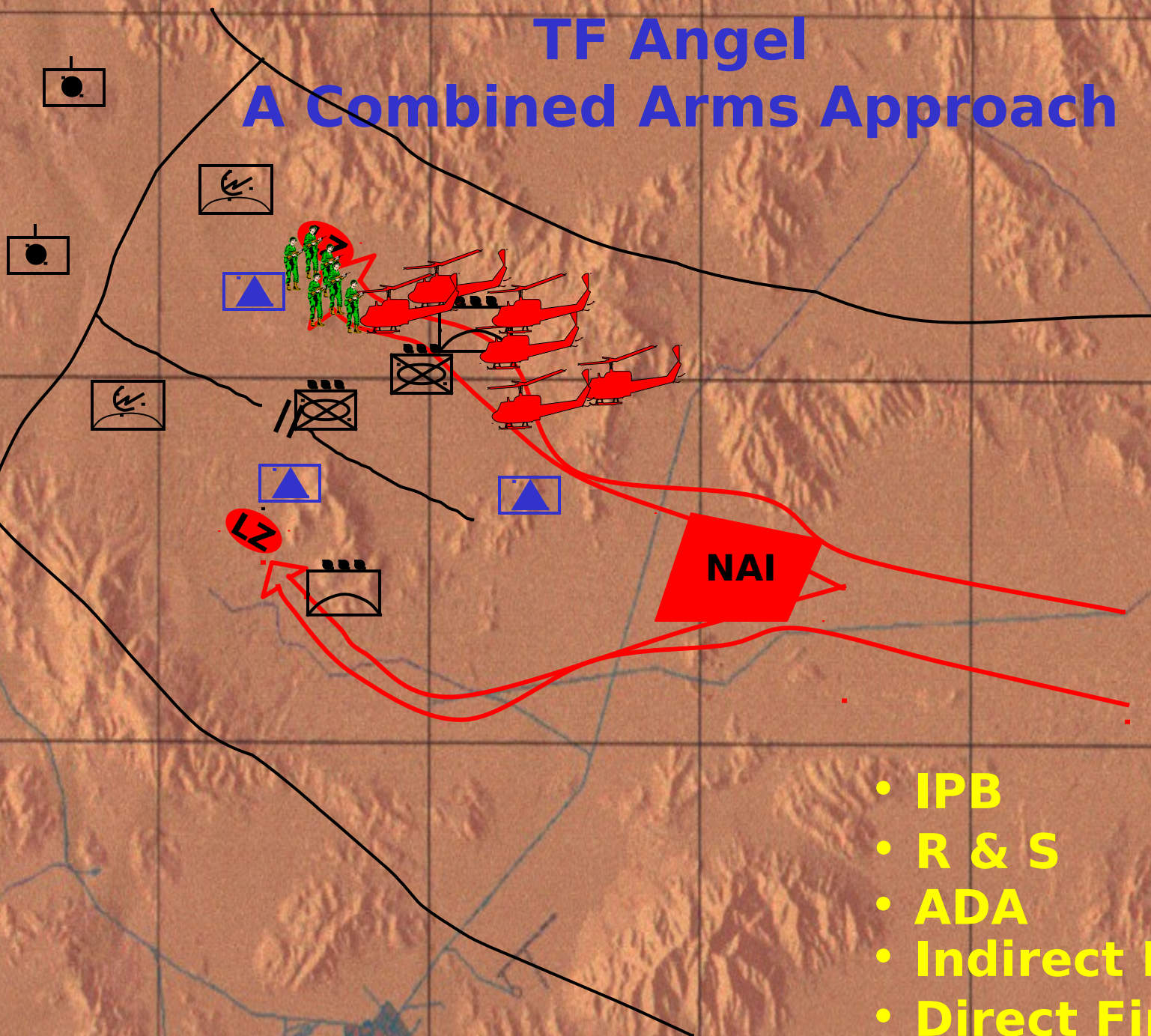


- IPB
- R & S
- ADA
- Indirect Fires w/C
- Direct Fires



# TF Angel

## A Combined Arms Approach

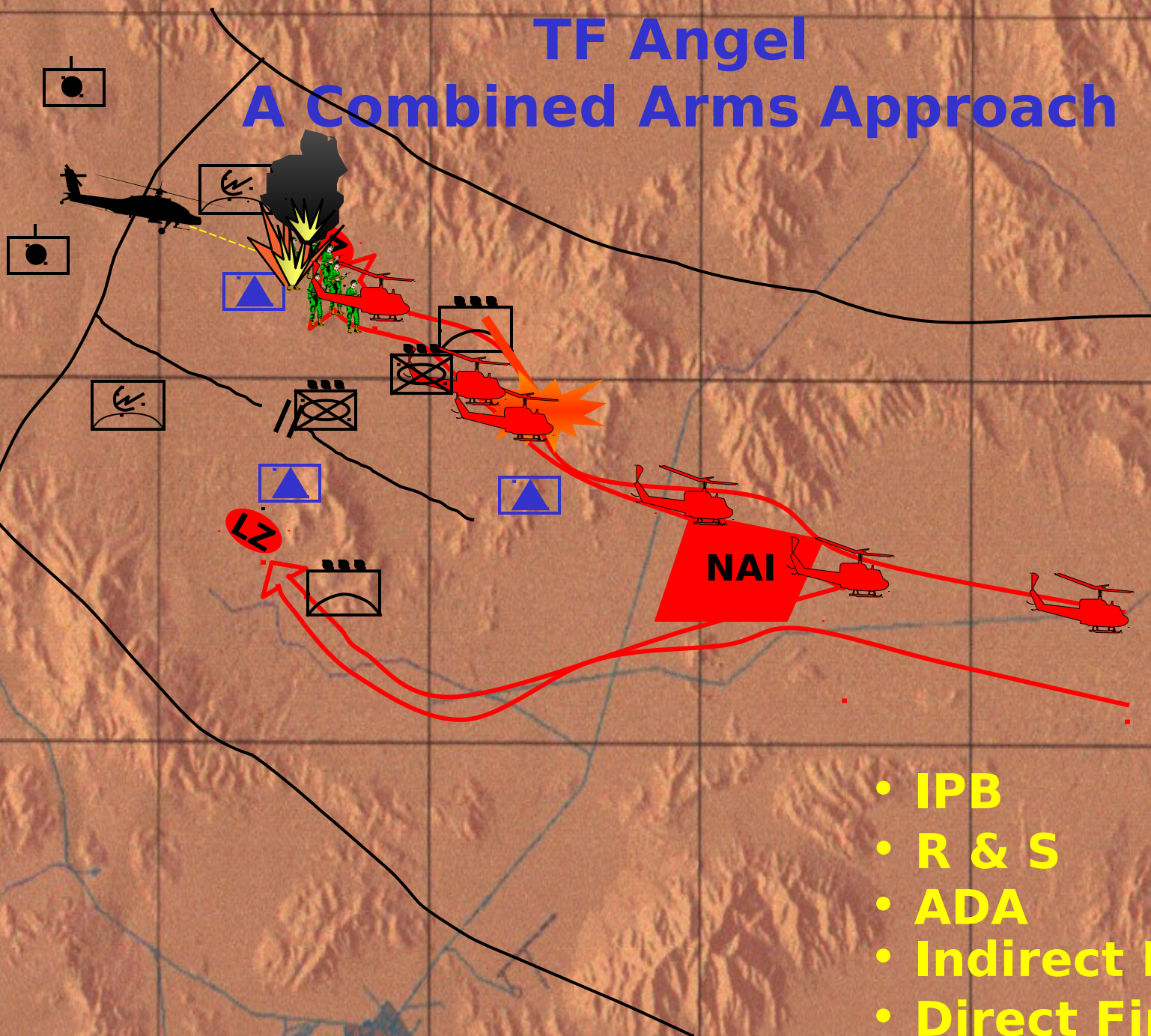


- IPB
- R & S
- ADA
- Indirect Fires w/C
- Direct Fires



# TF Angel

## A Combined Arms Approach

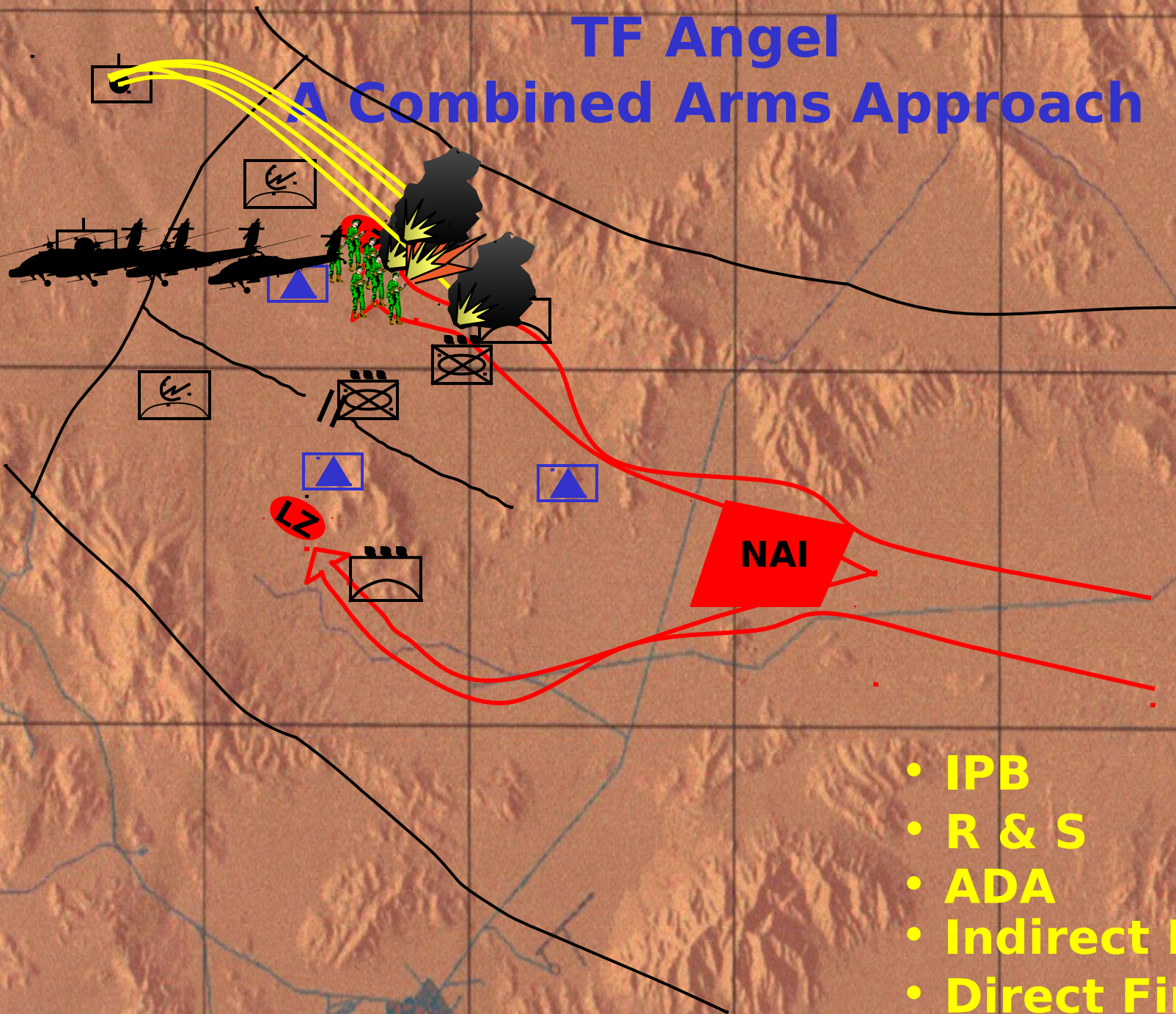


- IPB
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# TF Angel

## A Combined Arms Approach

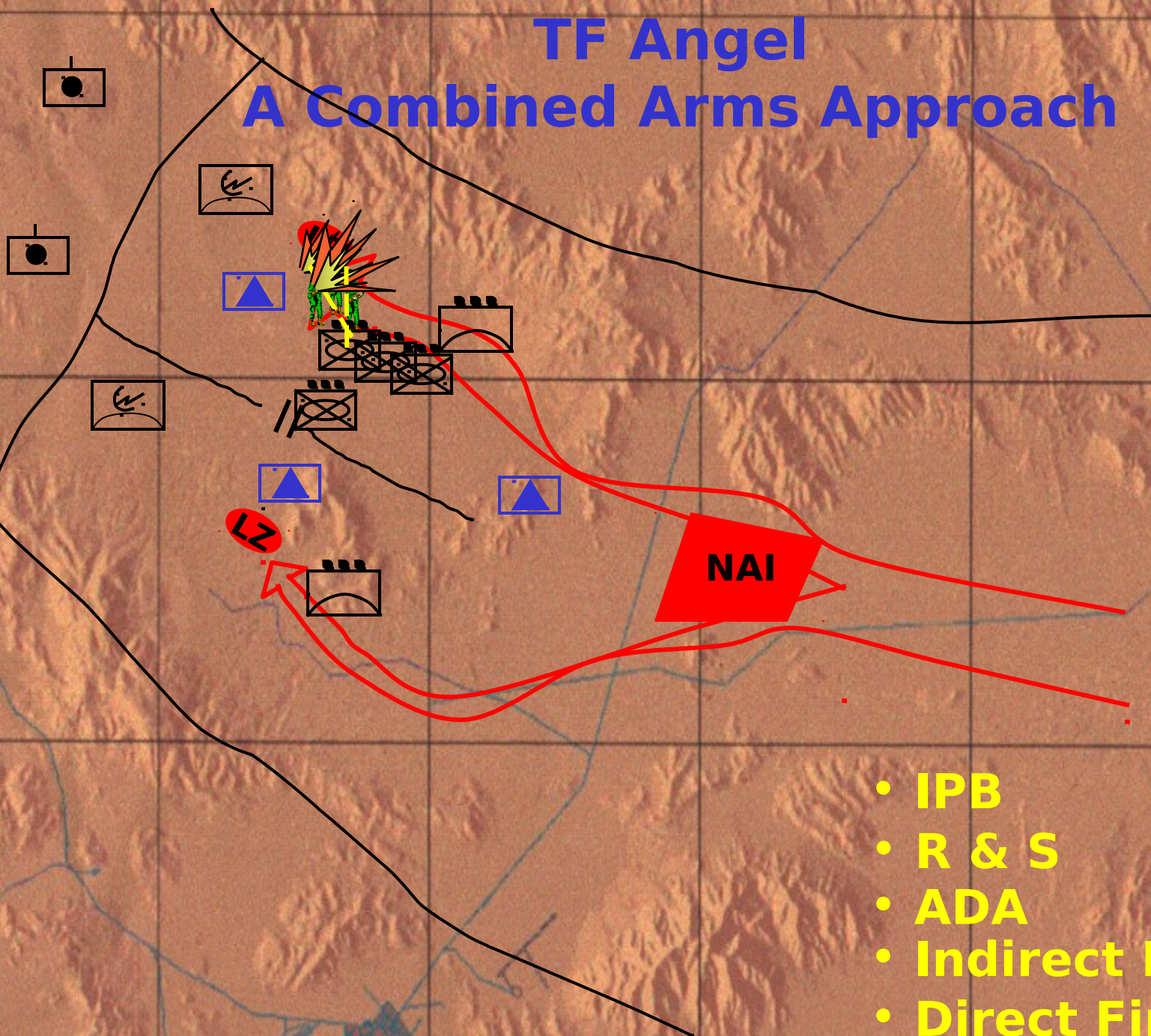


- IPB
- R & S
- ADA
- Indirect Fires w/C
- Direct Fires



# TF Angel

## A Combined Arms Approach

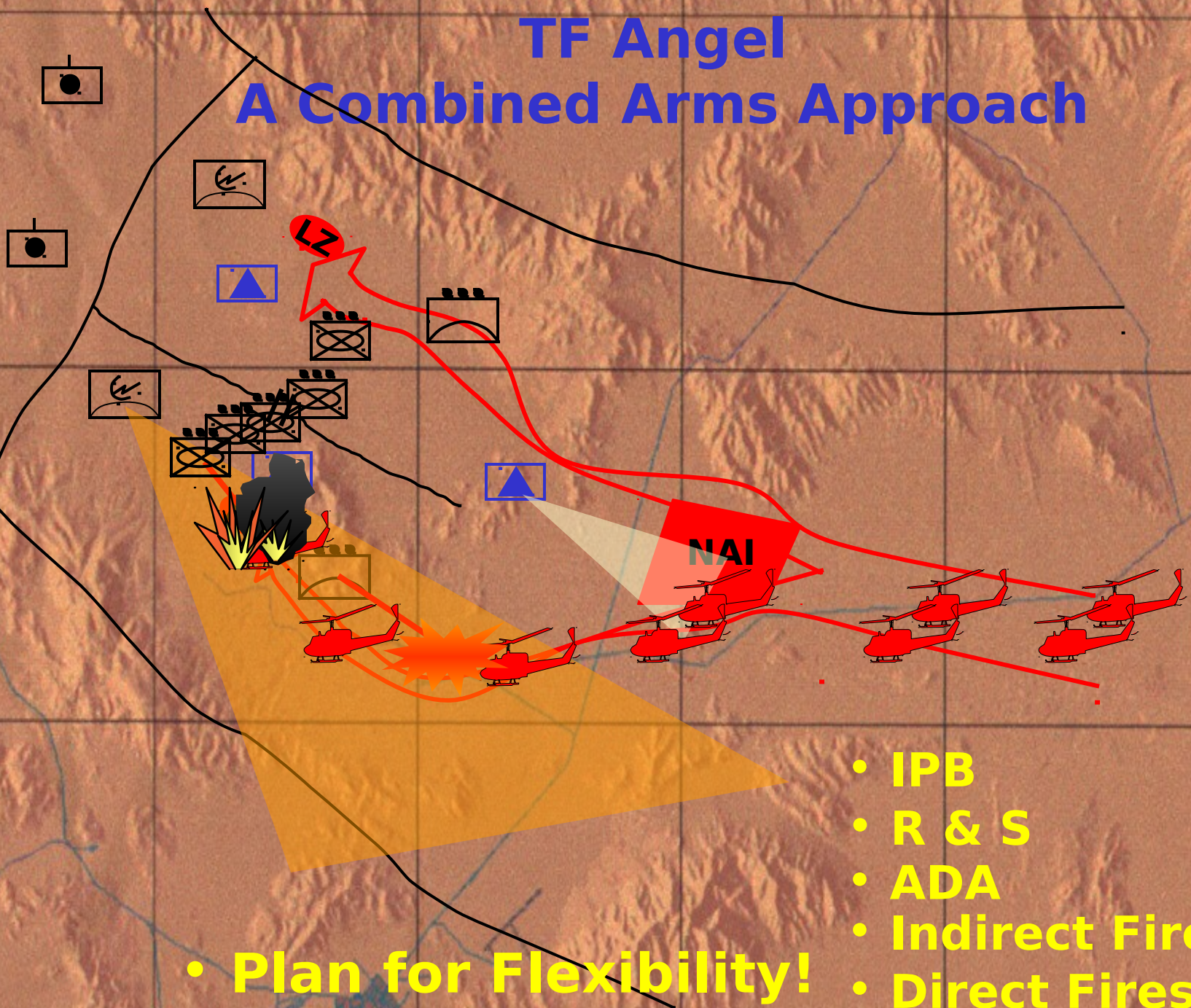


- IPB
- R & S
- ADA
- Indirect Fires w/C
- Direct Fires



# TF Angel

## A Combined Arms Approach



- Plan for Flexibility!
- IPB
- R & S
- ADA
- Indirect Fires w/C
- Direct Fires

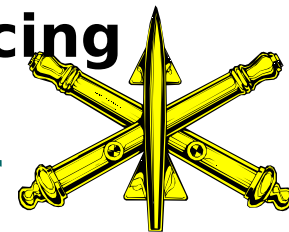




# **Bde GS Platoon Planning & Employment**



- **Must clearly understand BCs Task & Purpose for GS Plt**
  - **Triggers for movement based upon Battery DSM**
  - **Support Relationships**
- **Must understand BDE Mission and Scheme of Maneuver**
- **Coordinate with TF ADA (DS) PLT and understand TF Mission and Scheme of Maneuver**
- **Define role of Reinforcing or (GS) Reinforcing with (DS) ADA PLTs**

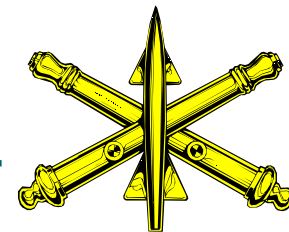




# Terrain Analysis



- **Observation and FOF**
  - Consider LOS and FOF for the Air Defender and Enemy Pilot
- **Cover and Concealment**
  - Contour Flying, Pop-Up Tactics and Masking
- **Obstacles**
  - Cities, Mountains, Trees
- **Key Terrain**
  - LZ and DZS, Airfields, Hilltops, Ridgelines
- **Approach**
  - Valleys, River Beds, Support Ground Maneuver Forces, Probable Air HVTs

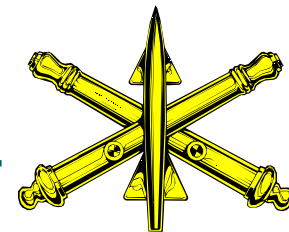




# Weather Analysis



- **Weather Data (BMNT / EENT, Winds, Temperature, Visibility)**
- **Effects of weather on ADA Systems**
- **Effects of weather on Threat Air Systems and Weapons**



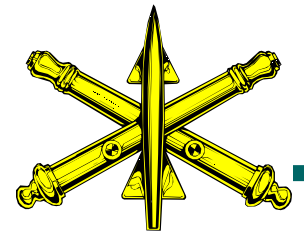


# Targeting



## Problems:

- **ADO generally unprepared to provide useful input**
- **Often times just a casual observer**
- **Lack of commanders guidance**
- **Unclear as to the endstate and what products should be developed (FRAGOs, etc)**







# Targeting Analysis



<b>DECIDE</b>	→	<b>Reconnaissance (RISTA)</b> <b>Resupply (Sustainment of enemy HVTs)</b>
<b>DETECT</b>	→	<b>DEW, LSDIS</b> <b>Stinger, Avenger</b> <b>Scouts, Maneuver</b> <b>Artillery, Army Aviation, CAS</b>
<b>DELIVER</b>	→	<b>Maneuver, Stinger, Avenger</b> <b>ATK AVN/CAS, Artillery, NGF, Smoke</b>
<b>ASSESS</b>	→	<b>Stinger, Avenger, AVN, Maneuver</b>

**Bottom Line:** You must do your homework prior to the targeting meeting (Air Event Template...Rub elbows with the S2)





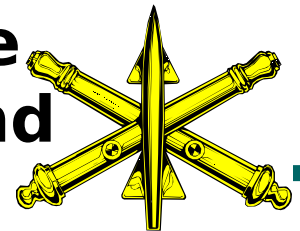
# Targeting



What we should bring:

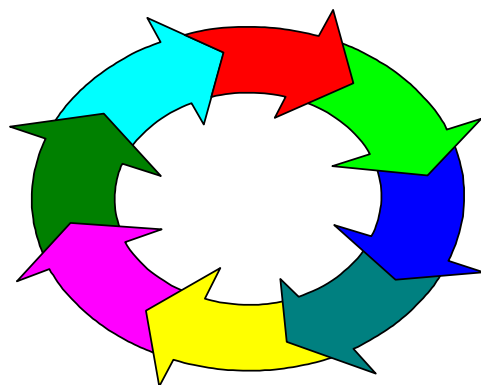
***Situational Template*** - Graphically depicts how the enemy might deviate from doctrinal tenets to accommodate the realities of geography or weather. It shows how AAAs are adjusted to most likely corridors.

***Event Template*** - Graphically depicts significant battlefield events and activities which help indicate enemy COAs. It facilitates comparing what we know the enemy can do with what he is doing, and thus predict what he will do next.





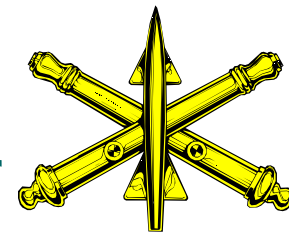
# AIR IPB



**I wish to examine the enemy's external appearance and so know his internal situation; to examine his advance and know when he will stop and thus determine the outcome.**

**The Art of War**

**Sun Tzu**





# **Aerial Portion of IPB**



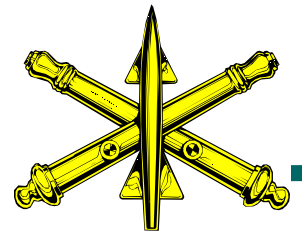
## **Air Threat Courses of Action**

**Relate the enemy's air, counterair, air defense, airborne, and air assault doctrines with the effects of weather and terrain to determine how the enemy will employ their assets.**

**“Preparation and the continuous updates of aerial IPBs are fundamental to the execution of the air defense mission on the modern**

***FM 34-130  
Intelligence Preparation  
of the Battlefield  
p.p. 4-1 thru 4-3***

**National Training Center**







# Where To Fight



## ESSENTIAL STEPS

**WHERE IS THE ENEMY GOING?  
WHERE MIGHT HE GO?**



**WHERE DO WE WANT TO MASS FIRES TO KILL HIM?  
ARRAY FORCES (HOW MUCH COMBAT POWER DO WE NEED)?**



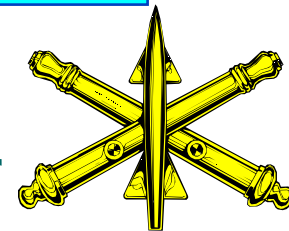
**ID TIME/DISTANCE FACTORS.  
BACKWARDS PLAN EVENT TRIGGERS.**



**ID R&S NEEDS TO CONFIRM OR DENY COA.  
KEY INDICATORS, ID DECISION POINTS.**



**ID DEEP FIGHT  
OBJECTIVES; TO  
ENHANCE FORCE  
RATIOS OR DELAY  
DISRUPT ENEMY  
MOVEMENT.**

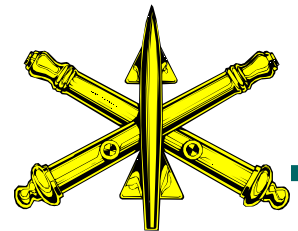




# Aerial Portion of IPB



- **Must be included on the SITEMP (S-2)**
- **Requires continuous updates and refinement**
- **Linked to the ground threat!**
- **Do not determine air COAs in isolation of the maneuver forces they support**



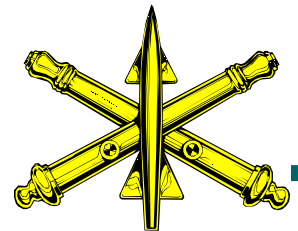


# Aerial Portion of IPB



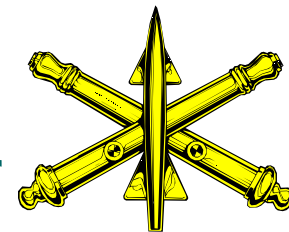
## Specific considerations include:

- Probable target installations or areas.
- Likely AAAs (Do they provide ease of navigation)
- Do they provide protection to the aircraft from ground and weapons?
- Do they allow evasive maneuver?
- Do they support ground force operations?
- **Likely standoff attack orbits.**
- Line of Sight from proposed ADA weapon location





# NTC ADA TRENDS



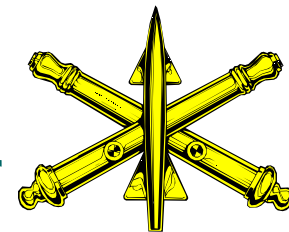




# **NTC ADA TRENDS**

## **AREAS WE WANT TO SUSTAIN**

- ★ **SAFETY**
- ★ **BATTLE DRILLS**
- ★ **MORALE / MOTIVATION**
- ★ **VISUAL AIRCRAFT RECOGNITION**
- ★ **MAINTENANCE**
- ★ **EW DISSEMINATION AND REACTION TO AIR ATTACK**
- ★ **LIVE FIRE UTILIZATION**

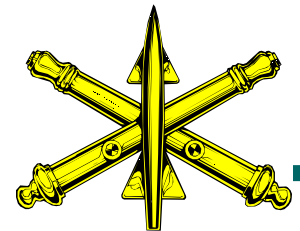




# **NTC ADA TRENDS**

## **AREAS ON AN UPWARD TREND**

- ★ **FAAD C3I CONNECTIVITY**
- ★ **AERIAL IPB INTEGRATION**
- ★ **SENTINEL RADAR EMPLOYMENT**



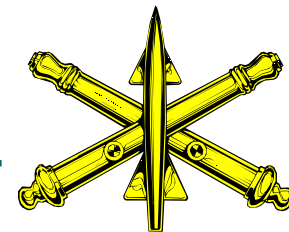


# **NTC ADA TRENDS**



## **AREAS WHERE WE CAN IMPROVE**

- ★ **REHEARSALS**
- ★ **A2C2 COORDINATION**
- ★ **EMPLOYMENT OF GS ASSETS**
- ★ **FAAD C3I OPERATIONS**
- ★ **PRE-COMBAT INSPECTIONS**
- ★ **DEFEATING THE NIGHT RW THREAT**

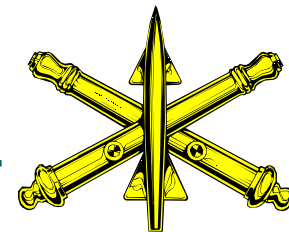




# **NTC ADA TRENDS**

## **AREAS WHERE WE CAN IMPROVE**

- ★ **FULL UTILIZATION OF LIVE FIRE**
- ★ **HEAVY / LIGHT INTEGRATION**
- ★ **BCT / TF INTEGRATION**
- ★ **RSOI (BUILDING COMBAT POWER)**
- ★ **PSG ROLE ON THE BATTLEFIELD**





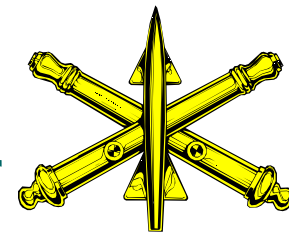


# **NTC ADA TRENDS**



## **AREAS WHERE WE CAN IMPROVE**

- ★ **BATTLE TRACKING**
- ★ **CASEVAC**
- ★ **RESUPPLY**
- ★ **TIME MANAGEMENT (TLP)**
- ★ **PSG ROLE ON THE BATTLEFIELD**



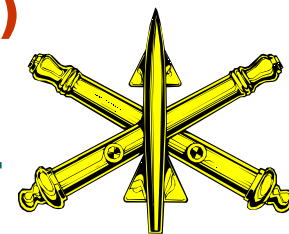


# **NTC ADA TRENDS**

## **REHEARSALS**



- **NORMALLY CONDUCTED WITHOUT ALL KEY LEADERS PRESENT (BATTERY)**
- **NOT REHEARSING OUR ACTIONS WHEN FRIENDLY AIR IS OPERATING IN SECTOR**
- **NOT REHEARSING CSS OPERATIONS**
- **NOT ATTENDING TF OR BCT CSS REHERSEALS (DON'T UNDERSTAND OUR ROLE IN THE REHERSEAL)**
- **NOT REHEARSING SENSOR MANAGEMENT**



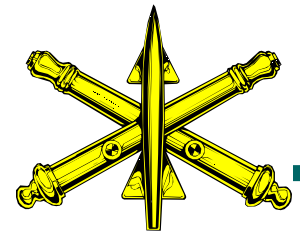


# **NTC ADA TRENDS**

## **A2C2**



- **WE HAVE DIFFICULTY IN ACHIEVING/SUSTAINING IFF VERIFICATION**
- **WE DO NOT ROUTINELY DISSEMINATE A2C2 GRAPHICS DOWN TO FIRE UNIT LEVEL**
- **WE DO NOT CONSISTENTLY DISSEMINATE FRIENDLY AIR ACTIVITY OVER BATTERY COMMAND NET**

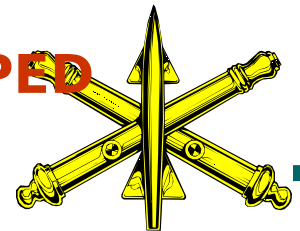




# **NTC ADA TRENDS**

## **EMPLOYMENT OF GS ASSETS**

- **RADARS NOT INTEGRATED INTO R&S PLAN**
  - \* **BCs UNSURE “HOW TO FIGHT” RADARS**
  - \* **POOR SITE SELECTION AND POSITIONING**
  - \* **NOT DEVELOPING TRIGGERS FOR MOVEMENT**
  - \* **NOT COORDINATING FOR FORCE PROTECTION**
- **AVENGERS/STINGERS NOT INTEGRATED INTO OVERALL SCHEME OF MANEUVER**
  - \* **LATE LINK UP WITH TFs / SUPPORTED UNIT**
  - \* **POOR ADJACENT UNIT COORDINATION**
  - \* **POOR COMMAND / CONTROL**
  - \* **POOR SITE SELECTION / POSITIONING**
  - \* **PLANS TO REPOSITION ARE NOT DEVELOPED**
  - \* **POOR COMMUNICATIONS**





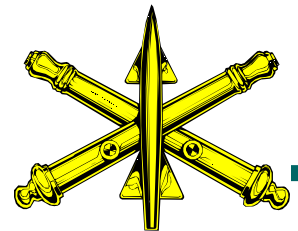


# **NTC ADA TRENDS**

## **FAADC3I OPERATIONS**



- **NOT OPTIMIZING USE OF AMDWS FOR PLANNING**
- **WE AVERAGE 75% LINK DURING RSOI AND 50% OR LESS WHILE DEPLOYED**
- **SOPs DO NOT INCLUDE DETAILED TROUBLESHOOTING PROCEDURES**





# **NTC ADA TRENDS**

## **PRE-COMBAT INSPECTIONS**



- **PL/PSG/SEC SGTs DO NOT UNDERSTAND THE DIFFERENCE BETWEEN PCCs and PCIs**
- **PCIs AT HOMESTATION ARE INCOMPLETE**
- **PCC LIST DO NOT DIFFERENTIATE BASED ON METT-T**
- **PCIs IN THE FIELD ARE NOT ROUTINELY CONDUCTED**
- **WE DO NOT INCLUDE TIME FOR PCIs IN OUR PLANNING TIMELINE (NOT INCLUDED IN WARNO OR OPOI)**
- **WE DON'T ASSOCIATE THE INSPECTIONS WITH TIME (I.E. HOW LONG IT TAKES TO CONDUCT THESE INSPECTIONS)**

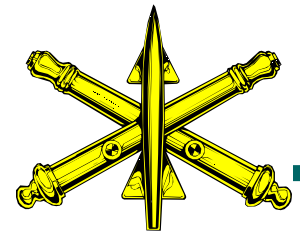




# **NTC ADA TRENDS**

## **DEFEATING THE NIGHT RW THREAT**

- **POOR COMBINED ARMS INTEGRATION**
- **POOR SOR MANAGEMENT**
- **POOR SITE SELECTION AND POSITIONING**



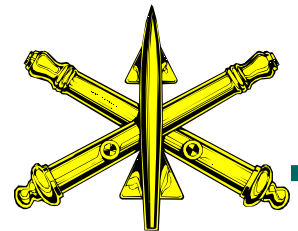


# **NTC ADA TRENDS**



## **FULL UTILIZATION OF LIVE FIRE**

- **NOT ALL BSFV / LINEBACKER / AVENGER CREWS  
TABLE VIII / STRAC CERTIFIED**
- **UNIT'S NOT TAKING ADVANTAGE OF STINGER  
AND M3P  
LIVE FIRE POSSIBILITIES**
- **CAFADS CAPABILITIES/TECHNIQUES NOT BEING  
DISSEMINATED TO THE FORCE**





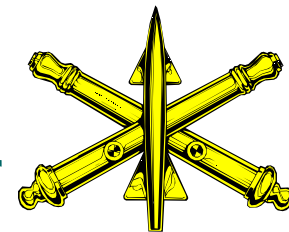


# **NTC ADA TRENDS**

## **HEAVY / LIGHT INTEGRATION**



- **LACK OF PRIOR COORDINATION**
- **ACTIONS DURING RSOI**
- **EARLY WARNING**
- **SERVICE SUPPORT**



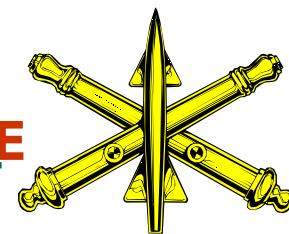


# **NTC ADA TRENDS**

## **BCT / TF INTEGRATION**



- **ADOs LACK A CLEAR UNDERSTANDING OF THEIR ROLE IN THE MDMP PROCESS**
- **UNDERDEVELOPED AERIAL IPB (NOT INCLUDED ON SITEMPs)**
- **ENG / MP SUPPORT FOR FORCE PROTECTION IS AN AFTERTHOUGHT**
- **PARTICIPATION/SCRIPT FOR REHEARSALS**
- **EARLY WARNING PLAN AND HOW THE FORCE WILL BE**

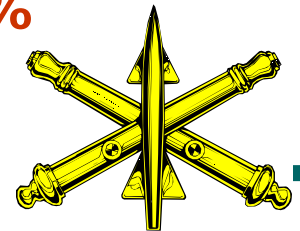




# **NTC ADA TRENDS**

## **RSOI (BUILDING COMBAT POWER)**

- **TIME MANAGEMENT**
- **CDR / XO / 1SG TRYING TO DO IT ALL**
- **IFF VERIFICATION CHECKS**
- **COMPLETING DRIVER'S TRAINING**
- **ZEROING OF WEAPONS**
- **HOMESTATION PCCs / PCIs INADEQUATE**
- **ARE WE ENTERING THE FIGHT AT NEAR 100% CAPABILITY**





# **NTC NCO ADA TRENDS**

## **BATTLE TRACKING**



- **PSG/1SGs DO NOT PARTICIPATE IN THE MDMP PROCESS (CAN'T AND DON'T COACH, TEACH, AND MENTOR PLs)**
- **AD PLANS ARE DEVELOPED WITHOUT CONSIDERING WHETHER IT CAN BE LOGISTACLLY SUPPORTED**
- **PSG/1SGs DON'T UNDERSTAND HOW OR WHAT TO BATTLE TRACK ON A DAILY BASES AND DURING A BATTLE**
- **INADEQUATE OR NO CSS SOPs**
- **DON'T KNOW HOW TO DEVELOP A CSS SYNCH MATRIX**
- **PSG/1SGs DO NOT UTILIZE TRACKING MECHANISMS TO MAINTAIN RUNNING ESTIMATES (EXAMPLE OF ITEMS**







# NTC NCO ADA TRENDS



## • Operational Tracking

- - Friendly Disposition
- - Enemy Disposition
- - NBC / Minefields
- - Combat Power (Attachments)
- - IFF STATUS
- - SHTU/HTU

## ▮ CSS Elements (locations)

- FTCP - GREG
- UMCP - EPW
- Trtmt Tms - CCP
- AXP's - LRP
- Decon Pts - FLE

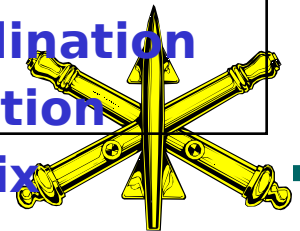
## ➤ CSS Status

- LOGSTAT Reports
- CL I Ration Cycles
- CL III, IV, V
- Transportation Assets
- Personnel Replacements
- Maintenance / Recovery / WSRO
- 5988E Flow
- Casualty Location / Numbers

## - CL IV / V Pts ▮ Concept of Support

- BCT / TF CSS Graphics
- Mission Analysis
- LOG Estimate
- Wargaming / Orders / Rehearsals
- CSS Critical Events
- Adjacent Unit Coordination
- LOGPAC Time / Location

National Training Center  
CSS Execution Matrix





# NTC NCO ADA TRENDS



## EXAMPLE PSG RUNNING ESTIMATE CARD

	• TEAM 1	• TEAM 2
•COMBAT POWER		
•TASK ORGAN		
•CURRENT GRID		
•WARNO DTG		
•TIMELINE		
•OPORD DTG		
•REHERSEALS DTG		
•RESUPPLY PLAN		
•CASEVAC PLAN		
•GRAPHICS		
•5988E		
•IFF		
•SHTU/HTU	• <b>**ETC**</b>	





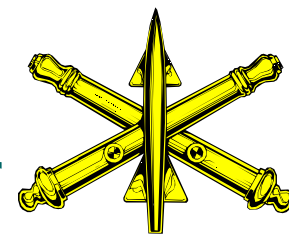
# NTC NCO ADA TRENDS



## CASEVAC

- **PSG/1SGs DO NOT PARTICIPATE IN THE MDMP PROCESS (THEY RELY ON INFO BEING DESSIMINATED DOWN TO THEM)**
- **PSG/1SGs ARE NOT PRODUCING PARA 4 OF OPORD**
- **PSG/1SGs DON'T UNDERSTAND WHO TO GET INFO FROM**
- **INADEQUATE OR NO CASEVAC SOPs**
- **DON'T KNOW HOW TO DEVELOP A CASEVAC SYNCH MATRIX**
- **PSG/1SGs DO NOT UNDERSTAND HOW CHS ASSETS ARE EMPLOYED**
- **BTYRs RARELY LD WITH CSS GRAPHICS**
- **1SGs DO NOT PLAN NOR ASSIST GS ASSETS**
- **NOT ENOUGH COMBAT LIFESAVERS IN UNITS**

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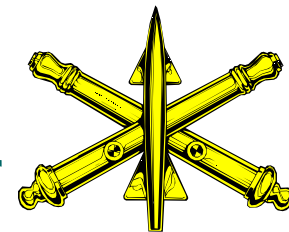


# **NTC NCO ADA TRENDS**

## **RESUPPLY**



- **PSG/1SGs DO NOT PARTICIPATE IN THE MDMP PROCESS**
- **AD PLANS ARE DEVELOPED WITHOUT CONSIDERING WHETHER IT CAN BE LOGISTICALLY SUPPORTED**
- **PSG/1SGs DON'T UNDERSTAND WHAT THEIR UNITS UBL IS**
- **INADEQUATE OR NO RESUPPLY SOPs**
- **DON'T UNDERSTAND THE DIFFERENT TECHNIQUES AVAILABLE TO RESUPPLY DS OR GS ASSETS**
- **PSG/1SGs DO NOT DEVELOP EXECUTION MATRIXs (NO PRE PLANNED TRIGGERS OR DECISION POINTS FOR RESUPPLY—NO GRAPHICS)**
- **1SGs DO NOT PROVIDE GS ASSETS SUPPORT**



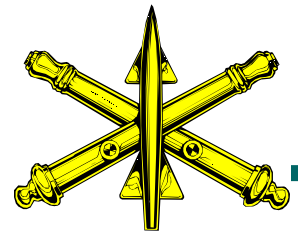


# NTC NCO ADA TRENDS

## TIME MANAGEMENT (TLP)



- **NCOs DO NOT ASSIST THE PL IN RAPIDLY ESTABLISHING A**  
**TIMELINE THAT INCLUDES ALL THE CRITICAL TASKS**  
**THAT**  
**MUST BE COMPLETED PRIOR TO MISSION TIME.** (orders, rehearsals, PCCs/PCIs, leader's recon, boresight, resupply, rest, etc.)







# **NTC NCO ADA TRENDS**



## **PSG ROLE ON THE BATTLEFIELD**

- **UNDER-UTILIZED BY PLATOON LEADERS**
- **NOT CONSISTENTLY CONDUCTING PCIs**
- **DO NOT FACILITATE PLATOON REHEARSALS**
- **COMFORT LEVEL IN TOCs IS LOW (BATTLE STAFF TNG)**
- **NOT UTILIZING 3KW GENERATOR OR CONVERTER FOR IFF PROGRAMMING**
- **BATTLE TRACKING / REPORTING TO SUPPORTED TF / BTRY**

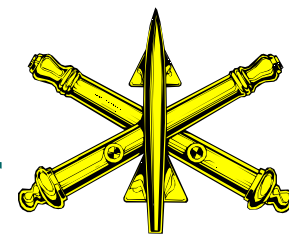




# Questions or Comments?



National Training Center





# Contact Information



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**CPT Mike Essary  
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**National Training Center**

